

Supplementary Materials (Field)

Sampling and manipulation procedure

To investigate bacterial respiration in the Indian sector of the Southern Ocean, short-term (30 h) to long-term (up to 7 days) batch incubation experiments were conducted at *in situ* temperature. Seawater samples were collected at 12 sites (R01–R12), spanning 23° to 52°S and crossing major temperature gradients and frontal zones in the Indian sector of the Southern Ocean. Only data collected south of the subantarctic front (R06–R12) are presented here; however, we retained the original site nomenclature to facilitate comparisons with future studies.

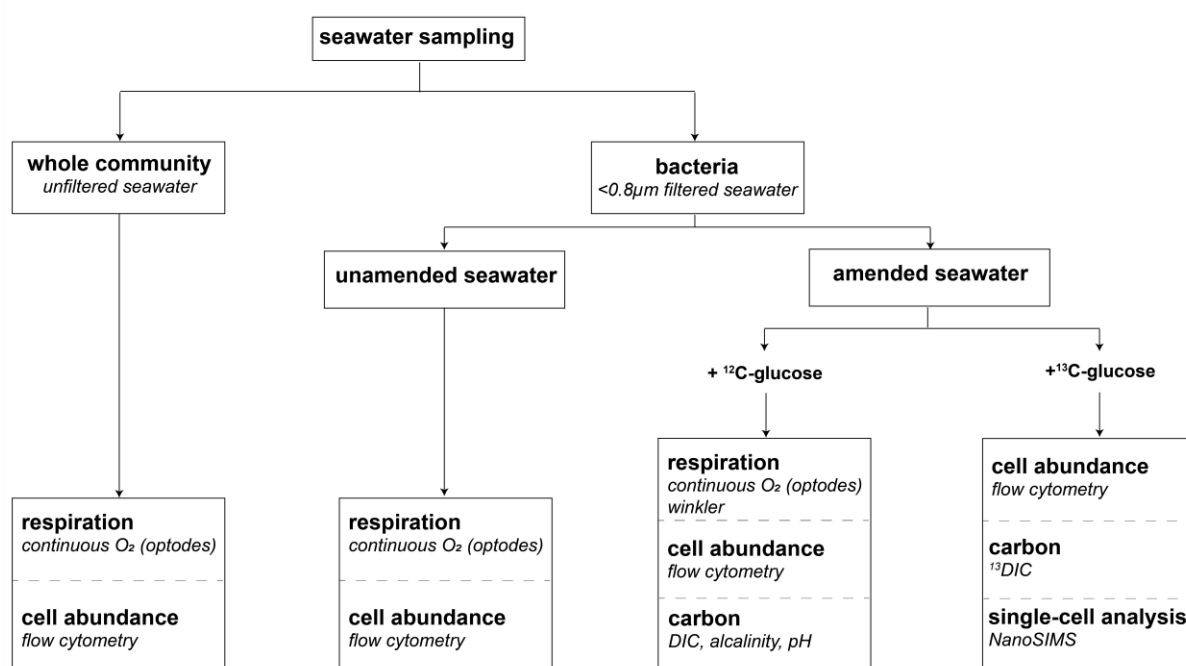


Figure S4 Experimental design for the assessment of bacterial respiration and carbon cycling in natural seawater. Surface seawater was collected and either incubated as unfiltered seawater to determine dark community respiration (DCR) or pre-filtered through a 0.8 µm membrane to obtain the bacterial fraction. The <0.8 µm fraction was incubated either without substrate addition to measure bacterial respiration (BR) under natural conditions or amended with 10 µM glucose. Glucose-amended incubations were performed using either ¹²C-glucose, allowing simultaneous measurements of bacterial respiration by continuous O₂ optodes and Winkler titration together with dissolved inorganic carbon (DIC) production, or ¹³C-glucose, enabling quantification of carbon incorporation and respiration through measurements of ¹³C-DIC and single-cell analyses by NanoSIMS. Cell abundance was determined in all experimental treatments.

Surface (5m) or subsurface (max 30m) seawater was collected either using a towed *in situ* sampler, drawn onboard using an air driven Teflon diaphragm pump (FISH) or the clean CTD-rosette. Seawater samples were transferred into cleaned and acid-washed glass biological oxygen demand (BOD) stoppered bottle equipped with an optode and maintained in a thermoregulated water bath (4°C). The consumption of O₂ by microbes was monitored in the dark for the total community (unfiltered seawater, dark community respiration or DCR) and the bacterial respiration only (fraction-size <0,8µm, BR) with non-invasive O₂ sensors (Presens). The bottles were inspected at the end of the incubation for bubbles, and none were noted. Additional incubations were performed on the fraction-size <0,8µm with 10 µM glucose addition.

Oxygen-based respiration rate determinations

Dissolved O₂ concentration was monitored every 4 min using an OXY4-SMA system (PreSens; precision $\pm 1.4 \mu\text{mol L}^{-1}$ O₂ at $283 \mu\text{mol L}^{-1}$ O₂), with polymer optical fibers mounted directly over the sensor spots of the BOD bottles, for a total of 105 incubations. Dissolved O₂ concentrations were automatically corrected for temperature and salinity using PreSens Measurement Studio2, based on continuous measurements of the water-bath temperature and the measured *in situ* salinity and pressure. A Milli-Q control bottle was maintained in the water bath throughout the cruise to monitor temperature and sensor drift.

In addition to continuous optode measurements, BR was determined using the Winkler method^{1,2} to validate the optode measurements and, when necessary, adjust the initial O₂ concentration. Triplicate 125-cm³ borosilicate glass bottles were filled with 0.8- μm prefiltered seawater, while three additional bottles were immediately fixed with Winkler reagents to determine the initial O₂ concentration. Bottles were incubated in the dark at *in situ* temperature, as for the continuous measurements. Dissolved O₂ concentrations were measured using an automated colorimetric endpoint detector, and BR was calculated for each time point as the difference between initial and final O₂ concentrations divided by incubation time. Linear O₂ consumption was verified against parallel continuous optode measurements. For each biological triplicate sampling, dissolved inorganic carbon (DIC) was measured in duplicate by potentiometric titration³. BR and DIC analyses were performed onboard the R/V *Marion Dufresne*.

Flow cytometry analyses of ultraphytoplankton and heterotrophic bacteria

At the beginning and end of each incubation, samples were collected for flow-cytometric enumeration of heterotrophic bacteria and pico- and nanophytoplankton. Samples were fixed with 1% glutaraldehyde (final concentration), flash-frozen in liquid nitrogen, and stored at -80°C until analysis.

Samples were analysed using the Cytoflex (Beckman Coulter) of the PRECYM flow cytometry platform (<https://precym.mio.osupytheas.fr/>), equipped with 3 solid-state lasers (blue 488nm, violet 405nm and red 638nm). A peristaltic pump system allows to access to the absolute volume analysed. The cell concentration was determined by sample volume analysed and confirmed by adding Trucount beads (BD Biosciences ®). 2 μm beads (Fluoresbrite YG, Polyscience) were also added as an internal standard to monitor the instrument stability and to discriminate picoplankton ($<2\mu\text{m}$) and nanoplankton ($>2\mu\text{m}$) populations.

For phytoplankton cell assessment, the red fluorescence (653-669nm, ChloroA) related to chlorophyll a, was used as trigger signal. Phytoplankton cells were characterized by 4 other optical signals: forward scatter (FSC) related to cell size, side scatter (SSC, from 488nm laser, and vSSC from 405nm laser) related to cell structure and orange fluorescence (564-606nm, -PE) related to phycoerythrin. For ultraphytoplankton enumeration 0.9mL of each sample + 25 μL Trucount beads + 15 μL of 2 μm beads. A minimum of 500 μL were acquired. Another 250 μL were acquired using a different setting to target the small/low chlorophyll *a* (such as Prochlorococcus) content cells. For heterotrophic prokaryote enumeration, 0.3mL of each sample + 5 μL of 2 μm beads + 50 μL Trucount beads, was incubated with 2ml SYBR Green II solution (Invitrogen - Molecular Probes, commercial solution diluted 10 times), for 15 min in the dark to stain the nucleic acids. Each cell was also characterized by 5 optical parameters: FSC, SSC, vSSC, red fluorescence (in order to exclude small autotrophs) and green fluorescence (515-530nm). Combining SYBR Green fluorescence and light diffusion parameters helps to distinguish unambiguously the cells from inorganic particles, detritus and

free DNA (Marie et al., 2000). All data were collected in log scale and stored in list mode, then data analysis for ultra phytoplankton and heterotrophic prokaryote's concentration determination was performed a posteriori using the CytExpert (Beckman Coulter).

Flow cytometry confirmed that heterotrophic bacteria numerically dominated the incubated communities. Across all stations, treatments and time points, bacteria outnumbered autotrophic pico- and nano-phytoplankton by a median factor of ~100 (Table S1), with pico-nanophytoplankton representing a median of 1.0% of total cells (maximum 13% at the northernmost, *Prochlorococcus*-rich stations). Pico-nanophytoplankton was dominated by *Prochlorococcus*-like cells north of the Subantarctic Front and absent south of it.

During the dark incubations, pico-nanophytoplankton declined by a median of ~65% from T0 to Tend (Table S2), so that by the end of every incubation the autotrophic contribution to cell numbers was negligible ($\leq 0.7\%$). Bacterial abundance, by contrast, remained within a factor of two of its initial value throughout (T0→Tend fold-change: median 1.3, range 0.3–2.0), with no evidence of collapse despite incubation times of up to 8 days. Together these observations indicate that the respiration measured in our incubations, particularly in the $<0.8\ \mu\text{m}$ fractions used to derive bacterial RQ, reflects bacterial metabolism, and that prolonged incubation did not introduce major perturbations of community structure.

Table S2 Flow-cytometric cell abundances at the start (Initial, T0) and end (Final, Tend) of the incubations, by station, zone, treatment and incubation time (t). Heterotrophic bacteria (Bacteria, 10^6 mL^{-1}) and total photosynthetic cells (10^3 mL^{-1}) are reported, the latter partitioned into (a) Prochlorococcus, (b) Synechococcus, (c) picoeukaryotes and (d) nanophytoplankton (each 10^3 mL^{-1}); the final column gives the summed photosynthetic groups (a+b+c+d) as a percentage of total cells. Treatments are unfiltered seawater (whole community), $<0.8 \mu\text{m}$ filtrate (bacteria only), and $<0.8 \mu\text{m}$ filtrate amended with $\text{U-}^{13}\text{C}$ -glucose at $t = 0$ ($<0.8 \mu\text{m} + ^{13}\text{C}$ -glc); the ^{13}C -glucose treatment shares the same filtered water as the corresponding $<0.8 \mu\text{m}$ T0, so its initial values are not re-counted. Dashes (—) indicate not measured. Zone: S of SAF, south of the Subantarctic Front.

Station	Treatment	Stage	<i>t</i> (h)	Bacteria (10^6 mL^{-1})	Total photosynthetic cells (a+b+c+d) (10^3 mL^{-1})	(a) Prochloro. (10^3 mL^{-1})	(b) Synecho. (10^3 mL^{-1})	(c) Picoeuk. (10^3 mL^{-1})	(d) Nano-phyto (10^3 mL^{-1})	(a)+(b)+(c)+(d) (% cells)
R06	Unfiltered	Initial (T0)	0	0.89	11.3	0.0	0.6	9.8	0.8	1.2%
	Unfiltered	Final (Tend)	174	1.05	3.8	0.0	0.6	2.8	0.3	0.4%
	$<0.8 \mu\text{m}$	Initial (T0)	0	0.83	16.1	0.0	0.2	15.9	0.0	1.9%
	$<0.8 \mu\text{m}$	Final (Tend)	—	1.60	10.9	0.0	0.1	10.9	0.0	0.7%
	$<0.8 \mu\text{m} + ^{13}\text{C}$ -glc	Initial (T0)	0	(= $<0.8 \mu\text{m}$ T0 — same filtered water; ^{13}C -glucose added at $t = 0$)						
	$<0.8 \mu\text{m} + ^{13}\text{C}$ -glc	Final (Tend)	170	2.29	11.2	0.0	0.3	10.8	0.1	0.5%
R07	Unfiltered	Initial (T0)	—	—	—	—	—	—	—	—
	Unfiltered	Final (Tend)	161	1.31	2.5	0.0	0.2	2.2	0.2	0.2%
	$<0.8 \mu\text{m}$	Initial (T0)	—	—	—	—	—	—	—	—
	$<0.8 \mu\text{m}$	Final (Tend)	148	0.42	2.5	0.0	0.0	2.4	0.0	0.6%
	$<0.8 \mu\text{m} + ^{13}\text{C}$ -glc	Initial (T0)	—	—	—	—	—	—	—	—
	$<0.8 \mu\text{m} + ^{13}\text{C}$ -glc	Final (Tend)	161	0.14	5.7	0.0	0.1	5.6	0.0	4.0%
R08	Unfiltered	Initial (T0)	0	0.40	5.0	0.0	0.1	4.4	0.5	1.2%
	Unfiltered	Final (Tend)	168	0.79	1.9	0.0	0.0	1.7	0.2	0.2%
	$<0.8 \mu\text{m}$	Initial (T0)	0	0.81	3.7	0.0	0.0	3.6	0.1	0.5%
	$<0.8 \mu\text{m}$	Final (Tend)	168	0.71	4.2	0.0	0.0	4.2	0.0	0.6%
	$<0.8 \mu\text{m} + ^{13}\text{C}$ -glc	Initial (T0)	0	(= $<0.8 \mu\text{m}$ T0 — same filtered water; ^{13}C -glucose added at $t = 0$)						
	$<0.8 \mu\text{m} + ^{13}\text{C}$ -glc	Final (Tend)	168	1.01	4.0	0.0	0.0	4.0	0.0	0.4%
R09	Unfiltered	Initial (T0)	0	0.94	15.7	0.0	0.3	12.9	2.5	1.6%
	Unfiltered	Final (Tend)	168	0.72	6.0	0.0	0.2	5.3	0.5	0.8%
	$<0.8 \mu\text{m}$	Initial (T0)	0	0.99	46.3	0.0	0.0	46.2	0.1	4.5%

	<0.8 μm	Final (Tend)	168	1.43	16.0	0.0	0.0	16.0	0.0	1.1%
	<0.8 μm + ^{13}C -glc	Initial (T0)	0		<i>(= <0.8 μm T0 — same filtered water; ^{13}C-glucose added at $t = 0$)</i>					
	<0.8 μm + ^{13}C -glc	Final (Tend)	168	2.22	14.7	0.0	0.0	14.7	0.0	0.7%
R10	Unfiltered	Initial (T0)	0	0.71	4.1	0.0	0.0	3.6	0.5	0.6%
	Unfiltered	Final (Tend)	192	0.67	1.4	0.0	0.0	1.1	0.2	0.2%
	<0.8 μm	Initial (T0)	—	0.48	9.8	0.0	0.0	9.8	0.0	2.0%
	<0.8 μm	Final (Tend)	192	0.66	2.7	0.0	0.0	2.6	0.0	0.4%
	<0.8 μm + ^{13}C -glc	Initial (T0)	0		<i>(= <0.8 μm T0 — same filtered water; ^{13}C-glucose added at $t = 0$)</i>					
	<0.8 μm + ^{13}C -glc	Final (Tend)	188	1.51	3.1	0.0	0.0	3.1	0.0	0.2%
R11	Unfiltered	Initial (T0)	0	0.74	2.9	0.0	0.0	2.5	0.4	0.4%
	Unfiltered	Final (Tend)	—	—	—	—	—	—	—	—
	<0.8 μm	Initial (T0)	0	0.52	5.2	0.0	0.0	5.2	0.0	1.0%
	<0.8 μm	Final (Tend)	—	—	—	—	—	—	—	—
R12	Unfiltered	Initial (T0)	0	1.40	1.9	0.0	0.0	1.5	0.4	0.1%
	Unfiltered	Final (Tend)	120	1.08	2.2	0.0	0.0	1.8	0.4	0.2%
	<0.8 μm	Initial (T0)	0	0.65	11.5	0.0	0.0	11.5	0.0	1.7%
	<0.8 μm	Final (Tend)	120	0.71	4.7	0.0	0.0	4.7	0.0	0.7%
	<0.8 μm + ^{13}C -glc	Initial (T0)	0		<i>(= <0.8 μm T0 — same filtered water; ^{13}C-glucose added at $t = 0$)</i>					
	<0.8 μm + ^{13}C -glc	Final (Tend)	120	1.05	4.1	0.0	0.0	4.0	0.0	0.4%

DIC concentration and ^{13}C enrichment.

Bacterial respiration was monitored continuously in BOD bottles equipped with optical O_2 sensors (optodes), as described above. Additional BOD bottle incubations were used for the ^{13}C -tracer experiments. In parallel, replicate 500-mL glass bottles were incubated to independently monitor changes in bulk DIC over the incubation period. These bottles were sealed with greased stoppers to minimize gas exchange. Dissolved inorganic carbon (DIC) concentrations were measured directly on-board by closed-cell potentiometric titration³, with calibration against Certified Reference Materials (A. Dickson, Scripps Institution of Oceanography).

Bulk DIC concentrations were measured at the beginning and end of all incubations to independently assess changes in inorganic carbon during the 5 to 7-day experiments. However, changes in bulk DIC resulting from bacterial respiration were small relative to the analytical uncertainty of the measurements ($\sim 3 \mu\text{mol kg}^{-1}$). This uncertainty represents a substantial fraction of the expected respiratory signal and propagates directly into RQ estimates, particularly when CO_2 production is low. Stable-isotope tracing was therefore used to quantify bacterial CO_2 production from a defined carbon source, providing the sensitivity required to resolve bacterial carbon oxidation under the low-respiration conditions encountered in the Southern Ocean.

For ^{13}C -DIC measurements, water samples were collected from the BOD bottles at the end of the incubations using a large-bore pipette. The pipette was inserted into the bottle and filled with sample water, which was then transferred to a 12-mL Exetainer. The Exetainer was filled to overflowing to remove air and avoid headspace. Samples were immediately poisoned with saturated HgCl_2 and stored in the dark at 4°C until analysis. The ^{13}C enrichment of the DIC pool was measured at the Pôle Spectrométrie Océan (IUEM, Brest, France) using a Thermo Delta V Plus isotope-ratio mass spectrometer coupled to a GasBench II. For each measurement, 1 mL of sample was injected into a helium-flushed 12-mL Exetainer and acidified with phosphoric acid. The evolved CO_2 was equilibrated for ≥ 12 h, separated chromatographically, and introduced into the IRMS. Isotope ratios were normalised against the international reference material NBS-19.

Isotopic compositions were expressed as ^{13}C atomic fraction ($\text{AT}\%$), obtained from the measured $\delta^{13}\text{C}$ (‰ vs VPDB) as:

$$R = R_{\text{VPDB}} \times (\delta^{13}\text{C}/1000 + 1), \text{ with } R_{\text{VPDB}} = 0.0111802$$

$$\text{AT}\% = 100 \times R / (1 + R)$$

The amount of ^{13}C - CO_2 respired over the incubation was then computed as the excess ^{13}C accumulated in the DIC pool relative to T0:

$$^{13}\text{C} - \text{CO}_2 \text{ produced } (\mu\text{mol L}^{-1}) = [(\text{AT}\%_t - \text{AT}\%_{\text{T0}}) / 100] \times [\text{DIC}]$$

where $\text{AT}\%_{\text{T0}}$ is the measured T0 DIC isotopic composition of the reference station R10 ($\text{AT}\%_{\text{T0}}=1.1564$) and $[\text{DIC}]$ its T0 concentration measured at each station.

Table S3 Raw data of ^{13}C enrichment of the dissolved inorganic carbon (DIC) pool. AT%_T0 is the common natural-abundance baseline (1.156445 %) applied to all stations. Atom percent excess (APE = AT% – AT%_T0) quantifies the ^{13}C -glucose respired into the DIC pool.

<i>Station</i>	<i>Time (h)</i>	<i>AT% $^{13}\text{C}/^{12}\text{C}$ (%)</i>	<i>DIC T0 ($\mu\text{mol C L}^{-1}$)</i>	<i>APE (%) (AT% – AT%_T0)</i>
R06	0.0	1.156445	2112	0.000000
	24.0	1.157902		0.001457
	90.0	1.162977		0.006532
	159.0	1.823279		0.666834
R07	0.0	1.156445	2119	0.000000
	115.0	1.161096		0.004651
	139.0	1.502564		0.346119
R08	0.0	1.156445	2129	0.000000
	48	1.157509		0.001064
	134	1.221964		0.065519
R09	0.0	1.156445	2098	0.000000
	55.0	1.162095		0.005650
	168.0	2.023100		0.866655
R10	0.0	1.156445	2128	0.000000
	175	2.751449		1.595004
R11	0.0	1.156445	2164	0.000000
	192.0	2.644187		1.487742
R12	0.0	1.156445	2107	0.000000
	48.0	1.159445		0.003000
	72.0	1.167464		0.011019

Calculation of apparent respiratory quotients

Apparent respiratory quotients (ARQs, Table S4 and Fig. S4) were calculated from changes in ^{13}C -DIC and O_2 concentrations over the same incubation period. Because O_2 consumption was gradual and non-linear, rates could not be reliably determined from a single linear slope. This “cumulative approach” was also preferred over instantaneous rates given the discrete nature of the ^{13}C -DIC measurements. ARQ was therefore calculated from the change in concentration over the matched incubation period:

$$ARQ = \Delta^{13}\text{DIC} / \Delta\text{O}_2$$

The quotient is termed “apparent” because the ^{13}C -DIC signal traces oxidation of the added ^{13}C -labelled glucose and does not account for respiration of the broader dissolved organic matter pool.

Table S4 Apparent respiratory quotient (ARQ), calculated as the ratio of cumulative ^{13}C -DIC production to cumulative O_2 consumption over selected time intervals.

<i>Station</i>	<i>Time</i> (h)	<i>DIC</i> (T0)	<i>ΔDIC</i> ($\mu\text{mol L}^{-1}$)	<i>ΔO₂</i> ($\mu\text{mol L}^{-1}$)	<i>RQ</i> ($\Delta\text{DIC}/\Delta\text{O}_2$)
R06	159	2112	14.1	20.1	0.70
R07	139	2119	7.33	8.97	0.82
R08	134	2129	1.39	1.28	1.09
R09	168	2098	18.1	17.9	1.01
R10	175	2128	8.60	26.3	0.32
R11	164	2164	32.2	26.9	1.19
R12	72	2107	0.23	0.84	0.27

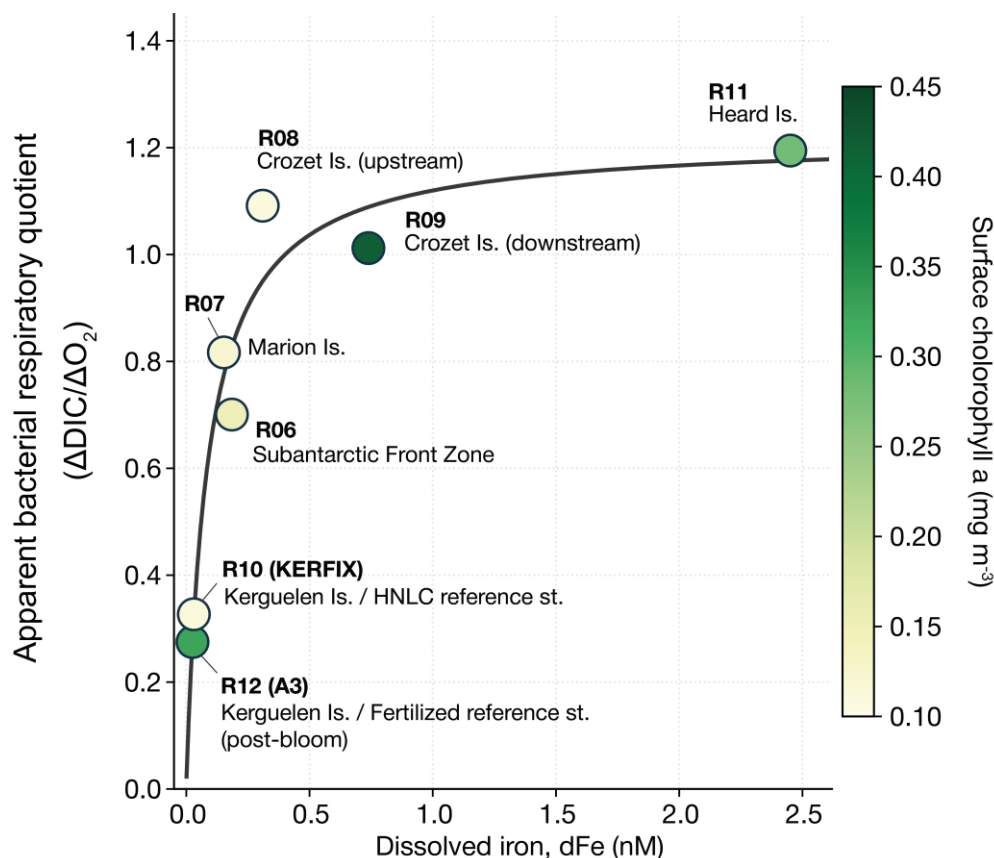


Figure S5 Apparent bacterial respiratory quotient versus dissolved iron (dFe) in surface waters from the seven stations; symbols are colored by *in situ* surface chlorophyll a concentration and the curve represents an empirical saturation fit.

¹³C detection in biomass

At the end of the ¹³C-glucose incubations, samples were fixed with glutaraldehyde (final concentration: 1%) and stored at -80°C in 4 mL cryotubes. Upon return to the laboratory, samples were thawed and stained with SYBR Green I nucleic acid dye (Molecular Probes; final concentration: 0.05%). Heterotrophic bacterial cells were identified and gated as detailed above and sorted using a BD FACS Aria™ Fusion flow cytometer. Sorted cells were directly deposited onto polycarbonate membrane filters at the sorter outlet⁴. This procedure ensured the selection of heterotrophic bacteria, removing debris and small photosynthetic eukaryotes and prokaryotes) and a dense deposition of cells side by side, allowing a better analytical throughput. Single cell analyses were performed on the NanoSIMS 50 (Cameca, Gennevillier, France) of the French National Ion MicroProbe Facility (National Museum of Natural History). Cells located using the CCD camera of the NanoSIMS and pre sputtered with a primary Cs⁺ ion beam of 150 pA for ~0.5 min, targeting a cumulative charge of ~5-10 pC cm⁻².

Analyses were performed using a 1.2 pA Cs⁺ primary ion beam focused to a spot size of ~80 nm for 1000 μs px⁻¹ in 20 μm x 20 μm scanning fields. At least 5 planes were accumulated for each analysis, recording the masses ¹²C⁻, ¹³C⁻, ¹²C¹⁴N⁻, ¹³C¹⁴N⁻, ³⁰P⁻. Cells were manually delimited based on ¹²C¹⁴N⁻ images using the L'IMAGE software (L. Nittler, Carnegie Institution of Washington). ¹²C¹⁴N⁻, ¹³C¹⁴N⁻ ions were used to calculate the ¹³C isotopic ratio as follows:

$$A_{\text{cell}} = {}^{13}\text{C}^{14}\text{N}^- / ({}^{12}\text{C}^{14}\text{N}^- + {}^{13}\text{C}^{14}\text{N}^-)$$

Following Berthelot et al. (2019)⁴, the carbon assimilation flux of each cell was calculated as:

$$\text{flux}_{\text{cell}} = (A_{\text{cell}} - A_{\text{nat}}) / (A_{\text{source}} - A_{\text{nat}}) \times Q / \Delta t$$

where A_{cell} is the ${}^{13}\text{C}$ atom (fraction) measured in the cell, A_{nat} the natural ${}^{13}\text{C}$ abundance determined from unlabelled T0 cells (0.01087, fraction), A_{source} the ${}^{13}\text{C}$ enrichment of the added substrate (D-Glucose- ${}^{13}\text{C}_6$, 99 atom% ${}^{13}\text{C}$, Sigma), Q the cellular carbon content ($12.4 \text{ fgC cell}^{-1}$)⁵, and Δt the incubation duration (h). The resulting $\text{flux}_{\text{cell}}$ represents the rate of incorporation of ${}^{13}\text{C}$ -labelled glucose-derived carbon into bacterial biomass at the single-cell level ($\text{fgC cell}^{-1} \text{ h}^{-1}$). For visualization, ${}^{13}\text{C}$ enrichment is expressed as atom percent excess (APE), calculated as $A_{\text{cell}} - A_{\text{nat}}$ in percent (Fig. S5).

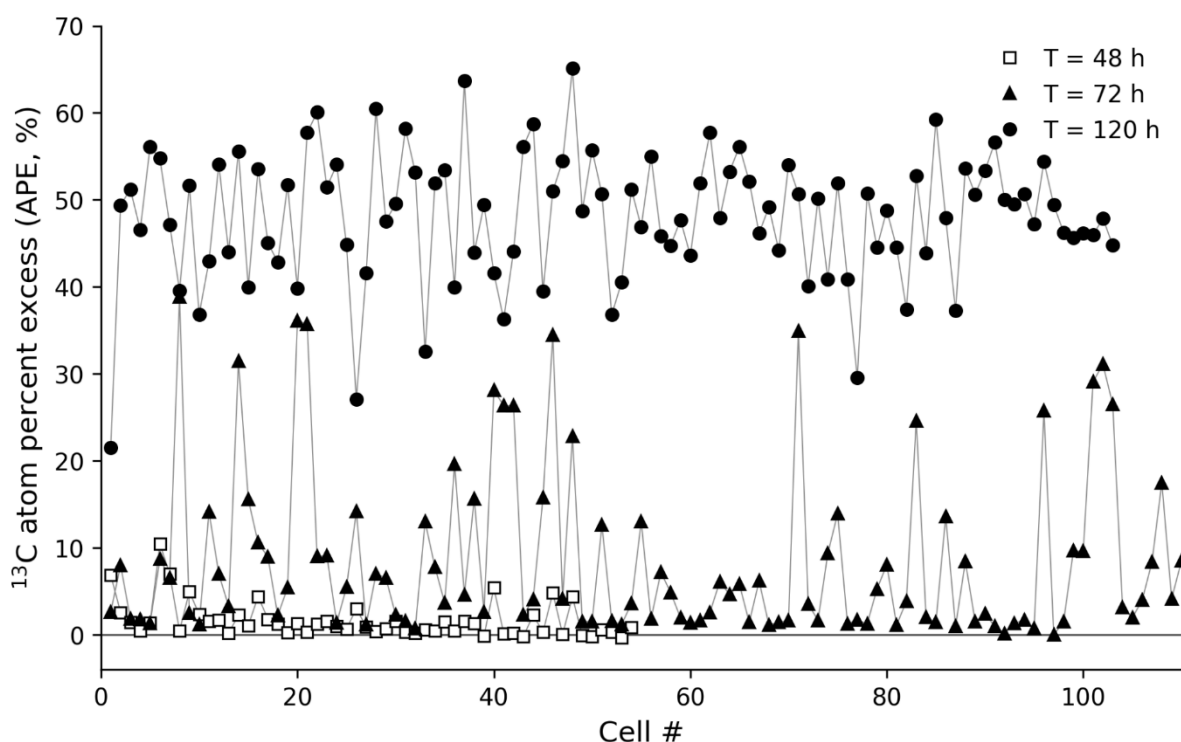


Figure S6. ${}^{13}\text{C}$ -glucose assimilation by individual marine bacteria from station R12 measured by NanoSIMS. ${}^{13}\text{C}$ enrichment expressed as atom percent excess ($\text{APE} = A_{\text{cell}}\% - A_{\text{nat}}\%$, where $A_{\text{nat}}\% = 1.087\%$) in individual bacterial cells at $T = 48 \text{ h}$ (open squares, $n = 54$), $T = 72 \text{ h}$ (filled triangles, $n = 110$), and $T = 120 \text{ h}$ (filled circles, $n = 103$). Each data point represents a single cell. The horizontal line indicates the natural ${}^{13}\text{C}$ background.

Community-level ${}^{13}\text{C}$ assimilation rate, A_{pop} ($\mu\text{molC L}^{-1} \text{ h}^{-1}$) was obtained by multiplying the mean $\text{flux}_{\text{cell}}$ assimilation rate by bacterial abundance (cell L^{-1}) and converting carbon mass to molar units (12 g mol^{-1}):

$$A_{\text{pop}} = \text{mean}(\text{flux}_{\text{cell}}) \times N$$

To distinguish cells that actively incorporated ^{13}C -glucose from inactive cells, an activity threshold was established from an unlabelled control, consisting of 118 bacterial cells collected at T0 (station R10, immediately before ^{13}C -glucose addition, labelled "0-Pipet" in the NanoSIMS dataset). These cells represent the natural $^{13}\text{C}/^{12}\text{C}$ isotopic background of the community.

The threshold was defined as:

$$\text{Threshold} = \text{mean}(\text{AT\%_control}) + 3 \times \text{SD}(\text{AT\%_control})$$

where AT% is the ^{13}C atom percent ($^{13}\text{C} / (^{12}\text{C} + ^{13}\text{C}) \times 100$) measured by NanoSIMS in each individual cell region of interest (ROI).

Unlabelled control statistics (n = 118 cells, R10 T0):

<i>Parameter</i>	<i>Value</i>
<i>mean(AT%_control)</i>	1.0866%
<i>SD(AT%_control)</i>	0.0728%
<i>Threshold (mean + 3σ)</i>	1.3051% AT¹³C

A cell was classified as active if its AT% cell > 1.3051%. Using 3 standard deviations ensures a <0.3% false-positive rate⁶. The unlabelled control (T0 cells, n = 118) was collected at station R10 and is applied as a common baseline for all stations, under the assumption that natural $^{13}\text{C}/^{12}\text{C}$ variability is consistent across the Southern Ocean stations sampled during the SWINGS cruise. The control mean AT% (1.087%) is close to the values of natural ^{13}C abundance of marine plankton (1.074-1.082), confirming the validity of the reference.

The great majority of analyzed cells incorporated ^{13}C -glucose above the detection threshold, with active fractions ranging from 81.5% (R12, 48 h) to 100% across most samples (Fig. S6). This confirms that the bacterial community was broadly responsive to the addition of ^{13}C -glucose, consistent with glucose being a labile, readily assimilated carbon substrate for marine heterotrophic bacteria. The lowest active fraction was observed at the earliest time point sampled by NanoSIMS (R12, 48 h: 81.5%), reflecting that a fraction of the community had not yet incorporated sufficient label to exceed the detection threshold. By 72 h and 120 h, active fractions at R12 reached 90.7–100%, indicating near-complete community activation over the course of the incubation. The high active fractions at the long-incubation stations (R05, R07, R10: 96–100%) suggest that virtually all cells in the filtered fraction (<0.8 μm) were metabolically capable of assimilating glucose over multi-day timescales.

Table S5 Raw NanoSIMS data. Station, incubation time, cellular ^{13}C atom fraction (A_{cell}), calculated carbon flux, and ^{13}C enrichment expressed as atom percent excess (APE).

<i>N°</i>	<i>Station</i>	<i>Incubation time (h)</i>	<i>A_{cell} (fraction)</i>	<i>Carbon Flux (fgC cell⁻¹ h⁻¹)</i>	<i>Carbon Flux (μmolC cell⁻¹ h⁻¹)</i>	<i>¹³C enrichment (APE, %) (A_{cell}% – A_{nat}%)</i>
1	R10	0	0.01065423	"T0"	"T0"	-0.020
2	R10	0	0.010785762	"T0"	"T0"	-0.007
3	R10	0	0.011185931	"T0"	"T0"	0.033
4	R10	0	0.011194972	"T0"	"T0"	0.034
5	R10	0	0.011068241	"T0"	"T0"	0.021
6	R10	0	0.010909245	"T0"	"T0"	0.005
7	R10	0	0.010923963	"T0"	"T0"	0.007
8	R10	0	0.011538849	"T0"	"T0"	0.068
9	R10	0	0.010347004	"T0"	"T0"	-0.051
10	R10	0	0.011172571	"T0"	"T0"	0.032
11	R10	0	0.010298847	"T0"	"T0"	-0.056
12	R10	0	0.010659385	"T0"	"T0"	-0.020
13	R10	0	0.011851851	"T0"	"T0"	0.100
14	R10	0	0.01053693	"T0"	"T0"	-0.032
15	R10	0	0.011244959	"T0"	"T0"	0.039
16	R10	0	0.010384136	"T0"	"T0"	-0.047
17	R10	0	0.011046882	"T0"	"T0"	0.019
18	R10	0	0.011091362	"T0"	"T0"	0.024
19	R10	0	0.010479645	"T0"	"T0"	-0.038
20	R10	0	0.01141337	"T0"	"T0"	0.056
21	R10	0	0.010729801	"T0"	"T0"	-0.013
22	R10	0	0.011040873	"T0"	"T0"	0.019
23	R10	0	0.010629135	"T0"	"T0"	-0.023
24	R10	0	0.01080623	"T0"	"T0"	-0.005

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25	R10	0	0.009421163	"T0"	"T0"	-0.143
26	R10	0	0.01051251	"T0"	"T0"	-0.034
27	R10	0	0.011216831	"T0"	"T0"	0.036
28	R10	0	0.010216791	"T0"	"T0"	-0.064
29	R10	0	0.011770426	"T0"	"T0"	0.092
30	R10	0	0.011005859	"T0"	"T0"	0.015
31	R10	0	0.010128095	"T0"	"T0"	-0.073
32	R10	0	0.012121781	"T0"	"T0"	0.127
33	R10	0	0.009980828	"T0"	"T0"	-0.087
34	R10	0	0.00946245	"T0"	"T0"	-0.139
35	R10	0	0.011259917	"T0"	"T0"	0.041
36	R10	0	0.010885885	"T0"	"T0"	0.003
37	R10	0	0.011239403	"T0"	"T0"	0.038
38	R10	0	0.010847621	"T0"	"T0"	-0.001
39	R10	0	0.010797155	"T0"	"T0"	-0.006
40	R10	0	0.01063146	"T0"	"T0"	-0.022
41	R10	0	0.009806652	"T0"	"T0"	-0.105
42	R10	0	0.010757174	"T0"	"T0"	-0.010
43	R10	0	0.011407135	"T0"	"T0"	0.055
44	R10	0	0.01042387	"T0"	"T0"	-0.043
45	R10	0	0.011329307	"T0"	"T0"	0.047
46	R10	0	0.009628997	"T0"	"T0"	-0.123
47	R10	0	0.010935304	"T0"	"T0"	0.008
48	R10	0	0.011259536	"T0"	"T0"	0.040
49	R10	0	0.011610468	"T0"	"T0"	0.076
50	R10	0	0.010413234	"T0"	"T0"	-0.044
51	R10	0	0.011961587	"T0"	"T0"	0.111
52	R10	0	0.0108484	"T0"	"T0"	-0.001
53	R10	0	0.010765034	"T0"	"T0"	-0.009
54	R10	0	0.011229195	"T0"	"T0"	0.037

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55	R10	0	0.01173648	"T0"	"T0"	0.088
56	R10	0	0.010663565	"T0"	"T0"	-0.019
57	R10	0	0.010704205	"T0"	"T0"	-0.015
58	R10	0	0.011812218	"T0"	"T0"	0.096
59	R10	0	0.011273122	"T0"	"T0"	0.042
60	R10	0	0.010361354	"T0"	"T0"	-0.049
61	R10	0	0.010865312	"T0"	"T0"	0.001
62	R10	0	0.011576242	"T0"	"T0"	0.072
63	R10	0	0.011316124	"T0"	"T0"	0.046
64	R10	0	0.009166934	"T0"	"T0"	-0.169
65	R10	0	0.010770456	"T0"	"T0"	-0.008
66	R10	0	0.0116378	"T0"	"T0"	0.078
67	R10	0	0.011852356	"T0"	"T0"	0.100
68	R10	0	0.011072031	"T0"	"T0"	0.022
69	R10	0	0.011024782	"T0"	"T0"	0.017
70	R10	0	0.011234828	"T0"	"T0"	0.038
71	R10	0	0.009886308	"T0"	"T0"	-0.097
72	R10	0	0.010083201	"T0"	"T0"	-0.077
73	R10	0	0.010029702	"T0"	"T0"	-0.083
74	R10	0	0.011628607	"T0"	"T0"	0.077
75	R10	0	0.011259216	"T0"	"T0"	0.040
76	R10	0	0.011042524	"T0"	"T0"	0.019
77	R10	0	0.011039941	"T0"	"T0"	0.019
78	R10	0	0.011976382	"T0"	"T0"	0.112
79	R10	0	0.011849795	"T0"	"T0"	0.099
80	R10	0	0.01263324	"T0"	"T0"	0.178
81	R10	0	0.011913811	"T0"	"T0"	0.106
82	R10	0	0.011129064	"T0"	"T0"	0.027
83	R10	0	0.010932472	"T0"	"T0"	0.008
84	R10	0	0.010408217	"T0"	"T0"	-0.045

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85	R10	0	0.011726235	"T0"	"T0"	0.087
86	R10	0	0.010274648	"T0"	"T0"	-0.058
87	R10	0	0.010697691	"T0"	"T0"	-0.016
88	R10	0	0.010356454	"T0"	"T0"	-0.050
89	R10	0	0.010302036	"T0"	"T0"	-0.055
90	R10	0	0.009618995	"T0"	"T0"	-0.124
91	R10	0	0.011177281	"T0"	"T0"	0.032
92	R10	0	0.011574325	"T0"	"T0"	0.072
93	R10	0	0.010582809	"T0"	"T0"	-0.027
94	R10	0	0.011158455	"T0"	"T0"	0.030
95	R10	0	0.010557532	"T0"	"T0"	-0.030
96	R10	0	0.009970775	"T0"	"T0"	-0.088
97	R10	0	0.01043414	"T0"	"T0"	-0.042
98	R10	0	0.011883076	"T0"	"T0"	0.103
99	R10	0	0.011005617	"T0"	"T0"	0.015
100	R10	0	0.011687024	"T0"	"T0"	0.083
101	R10	0	0.010045462	"T0"	"T0"	-0.081
102	R10	0	0.011907574	"T0"	"T0"	0.105
103	R10	0	0.009400745	"T0"	"T0"	-0.145
104	R10	0	0.011257602	"T0"	"T0"	0.040
105	R10	0	0.009546693	"T0"	"T0"	-0.131
106	R10	0	0.010533351	"T0"	"T0"	-0.032
107	R10	0	0.010684176	"T0"	"T0"	-0.017
108	R10	0	0.01158225	"T0"	"T0"	0.073
109	R10	0	0.010669348	"T0"	"T0"	-0.019
110	R10	0	0.008323296	"T0"	"T0"	-0.253
111	R10	0	0.011183436	"T0"	"T0"	0.033
112	R10	0	0.010294711	"T0"	"T0"	-0.056
113	R10	0	0.010718835	"T0"	"T0"	-0.014
114	R10	0	0.012907852	"T0"	"T0"	0.205

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115	R10	0	0.010660833	"T0"	"T0"	-0.019
116	R10	0	0.010186919	"T0"	"T0"	-0.067
117	R10	0	0.011047377	"T0"	"T0"	0.019
118	R10	0	0.00952493	"T0"	"T0"	-0.133
119	R05	60	0.10960589	0.020632502	1.71938E-12	9.875
120	R05	60	0.085253464	0.015544436	1.29537E-12	7.440
121	R05	60	0.059590322	0.010182517	8.48543E-13	4.874
122	R05	60	0.005952381	-0.001024306	-8.53588E-14	-0.490
123	R05	60	0.284282441	0.057128482	4.76071E-12	27.343
124	R05	60	0.0506536	0.008315326	6.92944E-13	3.980
125	R05	60	0.07696039	0.013811726	1.15098E-12	6.611
126	R05	60	0.131773859	0.025264158	2.10535E-12	12.092
127	R05	60	0.081129554	0.014682809	1.22357E-12	7.027
128	R05	60	0.067142844	0.011760501	9.80042E-13	5.629
129	R05	60	0.104881263	0.019645363	1.63711E-12	9.403
130	R05	60	0.083432659	0.015164007	1.26367E-12	7.258
131	R05	60	0.117798961	0.022344318	1.86203E-12	10.694
132	R05	60	0.087230216	0.015957448	1.32979E-12	7.638
133	R05	60	0.131912698	0.025293166	2.10776E-12	12.106
134	R05	60	0.112279404	0.021191091	1.76592E-12	10.142
135	R05	60	0.049595682	0.008094291	6.74524E-13	3.874
136	R05	60	0.092327703	0.01702249	1.41854E-12	8.147
137	R05	60	0.185333333	0.036454587	3.03788E-12	17.448
138	R05	60	0.027386536	0.003454031	2.87836E-13	1.653
139	R05	60	0.146231707	0.028284903	2.35708E-12	13.538
140	R05	60	0.312418866	0.063007156	5.2506E-12	30.156
141	R05	60	0.119958491	0.022795518	1.89963E-12	10.910
142	R05	60	0.357900906	0.072509929	6.04249E-12	34.705
143	R05	60	0.258042718	0.051646095	4.30384E-12	24.719
144	R05	60	0.045939281	0.007330342	6.10862E-13	3.508

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145	R05	60	0.168261324	0.032887653	2.74064E-12	15.741
146	R05	60	0.271707375	0.054501116	4.54176E-12	26.085
147	R05	60	0.466298659	0.095157974	7.92983E-12	45.544
148	R05	60	0.065036131	0.011320335	9.43361E-13	5.418
149	R05	60	0.046638934	0.007476524	6.23044E-13	3.578
150	R05	60	0.070979677	0.012562148	1.04685E-12	6.012
151	R05	60	0.06622113	0.011567923	9.63994E-13	5.537
152	R05	60	0.386113445	0.078404506	6.53371E-12	37.526
153	R05	60	0.347865919	0.070413273	5.86777E-12	33.701
154	R05	60	0.127956352	0.024466548	2.03888E-12	11.710
155	R05	60	0.30732709	0.061943307	5.16194E-12	29.647
156	R05	60	0.254358511	0.050876337	4.23969E-12	24.350
157	R05	60	0.268757938	0.053884876	4.49041E-12	25.790
158	R05	60	0.262233867	0.052521772	4.37681E-12	25.138
159	R05	60	0.183753048	0.036124411	3.01037E-12	17.290
160	R05	60	0.326468198	0.065942548	5.49521E-12	31.561
161	R05	60	0.028457597	0.003677813	3.06484E-13	1.760
162	R05	60	0.347085838	0.070250287	5.85419E-12	33.623
163	R05	60	0.41722365	0.084904505	7.07538E-12	40.637
164	R05	60	0.0352077	0.005088143	4.24012E-13	2.435
165	R05	60	0.140027637	0.026988658	2.24905E-12	12.917
166	R05	60	0.219332648	0.043558221	3.62985E-12	20.848
167	R05	60	0.040564374	0.006207338	5.17278E-13	2.971
168	R05	60	0.025845564	0.003132069	2.61006E-13	1.499
169	R05	60	0.36960029	0.074954336	6.24619E-12	35.875
170	R05	60	0.021639441	0.002253264	1.87772E-13	1.078
171	R05	60	0.018118926	0.001517706	1.26476E-13	0.726
172	R05	60	0.015248227	0.000917918	7.64932E-14	0.439
173	R05	60	0.01933804	0.001772421	1.47702E-13	0.848
174	R05	60	0.034953108	0.00503495	4.19579E-13	2.410

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175	R05	60	0.035954294	0.005244132	4.37011E-13	2.510
176	R05	60	0.090645695	0.01667106	1.38926E-12	7.979
177	R05	60	0.140753677	0.027140353	2.2617E-12	12.990
178	R05	60	0.123179087	0.023468412	1.9557E-12	11.232
179	R05	60	0.473539799	0.096670899	8.05591E-12	46.268
180	R05	60	0.074958957	0.013393557	1.11613E-12	6.410
181	R05	60	0.467234121	0.095353424	7.94612E-12	45.638
182	R05	60	0.055649775	0.0093592	7.79933E-13	4.479
183	R05	60	0.205743431	0.040718963	3.39325E-12	19.489
184	R05	60	0.027675267	0.003514357	2.92863E-13	1.682
185	R05	60	0.041904762	0.006487391	5.40616E-13	3.105
186	R05	60	0.025819451	0.003126613	2.60551E-13	1.496
187	R05	60	0.027267889	0.003429241	2.8577E-13	1.641
188	R05	60	0.05378893	0.008970406	7.47534E-13	4.293
189	R05	60	0.017207543	0.001327287	1.10607E-13	0.635
190	R05	60	0.016371681	0.001152646	9.60539E-14	0.552
191	R05	60	0.043414996	0.006802931	5.66911E-13	3.256
192	R05	60	0.02956812	0.003909839	3.2582E-13	1.871
193	R05	60	0.171058508	0.033472082	2.78934E-12	16.020
194	R05	60	0.046944328	0.007540331	6.28361E-13	3.609
195	R05	60	0.034032541	0.004842612	4.03551E-13	2.318
196	R05	60	0.396270781	0.080526725	6.71056E-12	38.542
197	R05	60	0.269743458	0.054090785	4.50757E-12	25.889
198	R05	60	0.211320768	0.041884262	3.49036E-12	20.047
199	R05	60	0.213016769	0.042238615	3.51988E-12	20.216
200	R05	60	0.271361072	0.054428761	4.53573E-12	26.051
201	R05	60	0.093649905	0.017298744	1.44156E-12	8.280
202	R05	60	0.091349587	0.016818128	1.40151E-12	8.049
203	R05	60	0.042325471	0.006575292	5.47941E-13	3.147
204	R05	60	0.144436624	0.027909848	2.32582E-12	13.358

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205	R05	60	0.131367058	0.025179163	2.09826E-12	12.051
206	R05	60	0.133043834	0.0255295	2.12746E-12	12.219
207	R05	60	0.015759849	0.001024813	8.54011E-14	0.490
208	R05	60	0.477671236	0.097534099	8.12784E-12	46.682
209	R05	60	0.263457173	0.052777362	4.39811E-12	25.260
210	R05	60	0.419696145	0.085421095	7.11842E-12	40.884
211	R05	60	0.419775236	0.085437619	7.1198E-12	40.892
212	R05	60	0.021607282	0.002246545	1.87212E-13	1.075
213	R05	60	0.322002468	0.065009502	5.41746E-12	31.115
214	R05	60	0.133528265	0.025630714	2.13589E-12	12.267
215	R05	60	0.051868151	0.008569088	7.14091E-13	4.101
216	R05	60	0.042712394	0.006656134	5.54678E-13	3.186
217	R05	60	0.019982917	0.001907159	1.5893E-13	0.913
218	R05	60	0.075508228	0.013508319	1.12569E-12	6.465
219	R07	168	0.127672564	0.008716877	7.26406E-13	11.682
220	R07	168	0.022580245	0.000874939	7.29116E-14	1.173
221	R07	168	0.025635335	0.001102909	9.19091E-14	1.478
222	R07	168	0.023503342	0.00094382	7.86517E-14	1.265
223	R07	168	0.095461452	0.006313299	5.26108E-13	8.461
224	R07	168	0.074706813	0.004764598	3.9705E-13	6.385
225	R07	168	0.388681448	0.028193232	2.34944E-12	37.783
226	R07	168	0.346483089	0.025044411	2.08703E-12	33.563
227	R07	168	0.074525334	0.004751057	3.95921E-13	6.367
228	R07	168	0.379722417	0.027524714	2.29373E-12	36.887
229	R07	168	0.063642797	0.003939007	3.28251E-13	5.279
230	R07	168	0.129192857	0.00883032	7.3586E-13	11.834
231	R07	168	0.077324651	0.00495994	4.13328E-13	6.647
232	R07	168	0.038387544	0.002054472	1.71206E-13	2.753
233	R07	168	0.106794293	0.007158951	5.96579E-13	9.594
234	R07	168	0.027991224	0.001278704	1.06559E-13	1.714

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235	R07	168	0.047855945	0.002761	2.30083E-13	3.700
236	R07	168	0.150029971	0.010385176	8.65431E-13	13.918
237	R07	168	0.026842174	0.001192963	9.94135E-14	1.599
238	R07	168	0.03467597	0.001777517	1.48126E-13	2.382
239	R07	168	0.114843507	0.007759579	6.46632E-13	10.399
240	R07	168	0.106233636	0.007117115	5.93093E-13	9.538
241	R07	168	0.095846865	0.006342059	5.28505E-13	8.499
242	R07	168	0.149001022	0.010308396	8.59033E-13	13.815
243	R07	168	0.326107068	0.023523963	1.96033E-12	31.525
244	R07	168	0.032731508	0.001632422	1.36035E-13	2.188
245	R07	168	0.034635231	0.001774477	1.47873E-13	2.378
246	R07	168	0.100636636	0.006699469	5.58289E-13	8.978
247	R07	168	0.122697449	0.008345636	6.9547E-13	11.184
248	R07	168	0.028340909	0.001304797	1.08733E-13	1.749
249	R07	168	0.058530068	0.003557498	2.96458E-13	4.768
250	R07	168	0.066199363	0.004129777	3.44148E-13	5.534
251	R07	168	0.040186502	0.00218871	1.82392E-13	2.933
252	R07	168	0.030263067	0.001448228	1.20686E-13	1.941
253	R07	168	0.034819112	0.001788198	1.49016E-13	2.396
254	R07	168	0.038366005	0.002052865	1.71072E-13	2.751
255	R07	168	0.139320529	0.009586042	7.98837E-13	12.847
256	R07	168	0.142333771	0.009810889	8.17574E-13	13.148
257	R07	168	0.074403926	0.004741997	3.95166E-13	6.355
258	R07	168	0.315676426	0.022745633	1.89547E-12	30.482
259	R07	168	0.033691557	0.00170406	1.42005E-13	2.284
260	R07	168	0.031833145	0.001565386	1.30449E-13	2.098
261	R07	168	0.36424178	0.026369556	2.19746E-12	35.339
262	R07	168	0.027530446	0.001244321	1.03693E-13	1.668
263	R07	168	0.034559027	0.00176879	1.47399E-13	2.370
264	R07	168	0.044736624	0.002528238	2.10686E-13	3.388

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265	R07	168	0.171747515	0.012005728	1.00048E-12	16.089
266	R07	168	0.101349371	0.006752653	5.62721E-13	9.049
267	R07	168	0.024917335	0.001049332	8.74443E-14	1.406
268	R07	168	0.081119692	0.005243124	4.36927E-13	7.026
269	R07	168	0.026376009	0.001158177	9.65148E-14	1.552
270	R07	168	0.027820407	0.001265958	1.05496E-13	1.697
271	R07	168	0.027750611	0.00126075	1.05062E-13	1.690
272	R07	168	0.03066425	0.001478164	1.2318E-13	1.981
273	R07	168	0.03604824	0.001879915	1.5666E-13	2.519
274	R07	168	0.136510645	0.00937637	7.81364E-13	12.566
275	R07	168	0.1334711	0.009149561	7.62463E-13	12.262
276	R07	168	0.029845924	0.001417101	1.18092E-13	1.899
277	R07	168	0.327997089	0.023664995	1.97208E-12	31.714
278	R07	168	0.028098404	0.001286702	1.07225E-13	1.724
279	R07	168	0.020545809	0.000723131	6.02609E-14	0.969
280	R07	168	0.021775005	0.000814853	6.79044E-14	1.092
281	R07	168	0.012202716	0.000100573	8.38111E-15	0.135
282	R07	168	0.08252555	0.005348029	4.45669E-13	7.167
283	R07	168	0.020244581	0.000700653	5.83878E-14	0.939
284	R07	168	0.017682643	0.000509483	4.24569E-14	0.683
285	R07	168	0.030562074	0.00147054	1.22545E-13	1.971
286	R07	168	0.083118794	0.005392296	4.49358E-13	7.226
287	R07	168	0.02592081	0.001124211	9.36842E-14	1.507
288	R07	168	0.09358325	0.006173149	5.14429E-13	8.273
289	R07	168	0.024210702	0.000996603	8.30503E-14	1.336
290	R07	168	0.024390248	0.001010001	8.41667E-14	1.354
291	R07	168	0.026773666	0.00118785	9.89875E-14	1.592
292	R07	168	0.140782208	0.009695112	8.07926E-13	12.993
293	R07	168	0.209814575	0.014846274	1.23719E-12	19.896
294	R07	168	0.01087219	1.29006E-06	1.07505E-16	0.002

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295	R07	168	0.102597409	0.006845781	5.70482E-13	9.174
296	R07	168	0.050464492	0.002955648	2.46304E-13	3.961
297	R07	168	0.024877278	0.001046343	8.71952E-14	1.402
298	R07	168	0.030470588	0.001463713	1.21976E-13	1.962
299	R07	168	0.02349635	0.000943299	7.86082E-14	1.264
300	R07	168	0.090169432	0.005918411	4.93201E-13	7.931
301	R07	168	0.018114993	0.000541745	4.51454E-14	0.726
302	R07	168	0.020127446	0.000691913	5.76594E-14	0.927
303	R07	168	0.286487095	0.02056754	1.71396E-12	27.563
304	R07	168	0.067219698	0.004205914	3.50493E-13	5.636
305	R07	168	0.024210438	0.000996584	8.30486E-14	1.336
306	R07	168	0.024408749	0.001011382	8.42818E-14	1.355
307	R07	168	0.14089146	0.009703264	8.08605E-13	13.004
308	R07	168	0.028797399	0.00133886	1.11572E-13	1.794
309	R07	168	0.074532957	0.004751625	3.95969E-13	6.368
310	R07	168	0.052488693	0.003106693	2.58891E-13	4.163
311	R07	168	0.099288765	0.006598892	5.49908E-13	8.843
312	R07	168	0.020351221	0.000708611	5.90509E-14	0.950
313	R07	168	0.023506107	0.000944027	7.86689E-14	1.265
314	R07	168	0.016039053	0.000386839	3.22366E-14	0.518
315	R07	168	0.055412204	0.003324844	2.7707E-13	4.456
316	R07	168	0.250645953	0.017893091	1.49109E-12	23.979
317	R07	168	0.061685661	0.003792966	3.16081E-13	5.083
318	R07	168	0.080518307	0.005198249	4.33187E-13	6.966
319	R10	168	0.595678791	0.043639273	3.63661E-12	58.482
320	R10	168	0.318044466	0.022922335	1.91019E-12	30.719
321	R10	168	0.048717689	0.002825303	2.35442E-13	3.786
322	R10	168	0.319175104	0.023006703	1.91723E-12	30.832
323	R10	168	0.554687829	0.040580547	3.38171E-12	54.383
324	R10	168	0.275370321	0.019738011	1.64483E-12	26.452

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325	R10	168	0.224585253	0.015948454	1.32904E-12	21.373
326	R10	168	0.48489605	0.035372719	2.94773E-12	47.404
327	R10	168	0.336142968	0.024272837	2.02274E-12	32.529
328	R10	168	0.25111928	0.017928411	1.49403E-12	24.026
329	R10	168	0.528646893	0.038637385	3.21978E-12	51.779
330	R10	168	0.564402248	0.041305432	3.44212E-12	55.355
331	R10	168	0.241646936	0.017221589	1.43513E-12	23.079
332	R10	168	0.112221196	0.007563903	6.30325E-13	10.137
333	R10	168	0.627854455	0.046040205	3.83668E-12	61.700
334	R10	168	0.489840156	0.035741646	2.97847E-12	47.899
335	R10	168	0.42595758	0.030974759	2.58123E-12	41.510
336	R10	168	0.488776028	0.035662241	2.97185E-12	47.792
337	R10	168	0.308526415	0.022212103	1.85101E-12	29.767
338	R10	168	0.613088377	0.044938368	3.74486E-12	60.223
339	R10	168	0.589932351	0.043210476	3.60087E-12	57.908
340	R10	168	0.569578449	0.041691678	3.47431E-12	55.872
341	R10	168	0.618971561	0.045377368	3.78145E-12	60.812
342	R10	168	0.664988334	0.048811117	4.06759E-12	65.413
343	R10	168	0.416811406	0.030292276	2.52436E-12	40.596
344	R10	168	0.055289507	0.003315689	2.76307E-13	4.443
345	R10	168	0.599713146	0.043940314	3.66169E-12	58.886
346	R10	168	0.584930172	0.042837216	3.56977E-12	57.408
347	R10	168	0.544397442	0.039812684	3.31772E-12	53.354
348	R10	168	0.30730895	0.022121256	1.84344E-12	29.645
349	R10	168	0.382044886	0.027698015	2.30817E-12	37.119
350	R10	168	0.127824403	0.008728207	7.27351E-13	11.697
351	R10	168	0.127824403	0.008728207	7.27351E-13	11.697
352	R10	168	0.119870419	0.008134685	6.7789E-13	10.902
353	R10	168	0.139461146	0.009596535	7.99711E-13	12.861
354	R10	168	0.423479277	0.030789829	2.56582E-12	41.262

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355	R10	168	0.589826798	0.0432026	3.60022E-12	57.897
356	R10	168	0.524076623	0.038296354	3.19136E-12	51.322
357	R10	168	0.589157018	0.043152621	3.59605E-12	57.830
358	R10	168	0.1060752	0.007105292	5.92108E-13	9.522
359	R10	168	0.568000581	0.041573938	3.46449E-12	55.715
360	R10	168	0.55494549	0.040599774	3.38331E-12	54.409
361	R10	168	0.41901113	0.030456418	2.53803E-12	40.816
362	R10	168	0.268603189	0.019233051	1.60275E-12	25.775
363	R10	168	0.60258591	0.044154679	3.67956E-12	59.173
364	R10	168	0.284518839	0.020420669	1.70172E-12	27.366
365	R10	168	0.111547085	0.007513602	6.26133E-13	10.069
366	R10	168	0.406655673	0.02953446	2.46121E-12	39.580
367	R10	168	0.557861774	0.040817385	3.40145E-12	54.701
368	R10	168	0.189230431	0.013310295	1.10919E-12	17.838
369	R10	168	0.095760127	0.006335586	5.27966E-13	8.491
370	R10	168	0.143215311	0.009876669	8.23056E-13	13.236
371	R10	168	0.135727285	0.009317916	7.76493E-13	12.487
372	R10	168	0.134096989	0.009196264	7.66355E-13	12.324
373	R10	168	0.066563965	0.004156983	3.46415E-13	5.571
374	R10	168	0.488704006	0.035656867	2.97141E-12	47.785
375	R10	168	0.317691179	0.022895973	1.908E-12	30.684
376	R10	168	0.320268661	0.023088303	1.92403E-12	30.941
377	R10	168	0.078502404	0.005047824	4.20652E-13	6.765
378	R10	168	0.213437344	0.015116603	1.25972E-12	20.258
379	R10	168	0.421119425	0.030613738	2.55114E-12	41.026
380	R10	168	0.549572292	0.040198828	3.3499E-12	53.872
381	R10	168	0.35853996	0.025944089	2.16201E-12	34.769
382	R10	168	0.437432533	0.031831014	2.65258E-12	42.658
383	R10	168	0.078829042	0.005072197	4.22683E-13	6.797
384	R10	168	0.26103491	0.01866831	1.55569E-12	25.018

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385	R10	168	0.105328416	0.007049567	5.87464E-13	9.447
386	R10	168	0.370768938	0.02685661	2.23805E-12	35.991
387	R10	168	0.48078292	0.035065799	2.92215E-12	46.993
388	R10	168	0.495950378	0.036197587	3.01647E-12	48.510
389	R10	168	0.507464055	0.037056732	3.08806E-12	49.661
390	R10	168	0.073453883	0.004671105	3.89259E-13	6.260
391	R10	168	0.11222304	0.007564041	6.30337E-13	10.137
392	R10	168	0.318667412	0.022968819	1.91407E-12	30.781
393	R10	168	0.398159942	0.028900513	2.40838E-12	38.731
394	R10	168	0.530272568	0.038758692	3.22989E-12	51.942
395	R10	168	0.432112301	0.031434021	2.6195E-12	42.126
396	R10	168	0.480731676	0.035061975	2.92183E-12	46.988
397	R10	168	0.362639179	0.026249971	2.1875E-12	35.178
398	R10	168	0.385113975	0.027927029	2.32725E-12	37.426
399	R10	168	0.413866477	0.030072527	2.50604E-12	40.301
400	R10	168	0.344603994	0.024904194	2.07535E-12	33.375
401	R10	168	0.370528122	0.02683864	2.23655E-12	35.967
402	R10	168	0.370528122	0.02683864	2.23655E-12	35.967
403	R10	168	0.660915009	0.048507168	4.04226E-12	65.006
404	R10	168	0.208362921	0.014737952	1.22816E-12	19.751
405	R10	168	0.135485628	0.009299884	7.7499E-13	12.463
406	R10	168	0.040850795	0.002238279	1.86523E-13	3.000
407	R10	168	0.05911099	0.003600846	3.0007E-13	4.826
408	R10	168	0.154846574	0.010744588	8.95382E-13	14.399
409	R10	168	0.214373209	0.015186437	1.26554E-12	20.352
410	R10	168	0.026159557	0.001142026	9.51688E-14	1.530
411	R10	168	0.10359572	0.006920275	5.7669E-13	9.274
412	R10	168	0.177507791	0.012435557	1.0363E-12	16.665
413	R10	168	0.078906934	0.005078009	4.23167E-13	6.805
414	R10	168	0.037275719	0.001971508	1.64292E-13	2.642

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415	R10	168	0.623652178	0.045726633	3.81055E-12	61.280
416	R10	168	0.415463824	0.03019172	2.51598E-12	40.461
417	R10	168	0.119752957	0.00812592	6.7716E-13	10.890
418	R10	168	0.105263118	0.007044695	5.87058E-13	9.441
419	R10	168	0.056391988	0.003397955	2.83163E-13	4.554
420	R10	168	0.015441493	0.000342249	2.85208E-14	0.459
421	R10	168	0.012899605	0.000152575	1.27146E-14	0.204
422	R10	168	0.257786027	0.01842588	1.53549E-12	24.693
423	R10	168	0.311187915	0.022410703	1.86756E-12	30.033
424	R10	168	0.010514541	-2.53975E-05	-2.11646E-15	-0.034
425	R10	168	0.012779233	0.000143593	1.19661E-14	0.192
426	R10	168	0.013708518	0.000212936	1.77446E-14	0.285
427	R10	168	0.018529871	0.000572702	4.77252E-14	0.767
428	R10	168	0.351504948	0.02541914	2.11826E-12	34.065
429	R10	168	0.308352021	0.02219909	1.84992E-12	29.750
430	R10	168	0.014186135	0.000248575	2.07146E-14	0.333
431	R12	72	0.037270644	0.004599303	3.83275E-13	2.642
432	R12	72	0.09085341	0.013928716	1.16073E-12	8.000
433	R12	72	0.029306107	0.00321258	2.67715E-13	1.845
434	R12	72	0.028424587	0.003059096	2.54925E-13	1.757
435	R12	72	0.023834387	0.002259887	1.88324E-13	1.298
436	R12	72	0.097928287	0.015160538	1.26338E-12	8.707
437	R12	72	0.076552106	0.011438684	9.53224E-13	6.570
438	R12	72	0.399340245	0.067640035	5.63667E-12	38.849
439	R12	72	0.03591216	0.004362774	3.63565E-13	2.506
440	R12	72	0.022882033	0.00209407	1.74506E-13	1.203
441	R12	72	0.151981944	0.024571939	2.04766E-12	14.113
442	R12	72	0.080787354	0.012176093	1.01467E-12	6.993
443	R12	72	0.043404659	0.00566731	4.72276E-13	3.255
444	R12	72	0.325057217	0.054706454	4.55887E-12	31.420

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445	R12	72	0.166504273	0.027100453	2.25837E-12	15.565
446	R12	72	0.116613259	0.01841382	1.53448E-12	10.576
447	R12	72	0.100132229	0.015544271	1.29536E-12	8.928
448	R12	72	0.033060316	0.003866234	3.22186E-13	2.221
449	R12	72	0.064989728	0.009425533	7.85461E-13	5.413
450	R12	72	0.372098386	0.062896895	5.24141E-12	36.124
451	R12	72	0.367691269	0.062129563	5.17746E-12	35.684
452	R12	72	0.10076728	0.015654841	1.30457E-12	8.991
453	R12	72	0.101905256	0.015852977	1.32108E-12	9.105
454	R12	72	0.024432916	0.002364098	1.97008E-13	1.358
455	R12	72	0.065538516	0.009521084	7.93424E-13	5.468
456	R12	72	0.1529839	0.024746392	2.0622E-12	14.213
457	R12	72	0.022896294	0.002096553	1.74713E-13	1.204
458	R12	72	0.080678288	0.012157103	1.01309E-12	6.982
459	R12	72	0.076498423	0.011429337	9.52445E-13	6.564
460	R12	72	0.033702875	0.003978111	3.31509E-13	2.285
461	R12	72	0.026826196	0.002780797	2.31733E-13	1.597
462	R12	72	0.018133571	0.001267305	1.05609E-13	0.728
463	R12	72	0.140995864	0.022659128	1.88826E-12	13.014
464	R12	72	0.088799682	0.013571137	1.13093E-12	7.794
465	R12	72	0.047169245	0.00632277	5.26898E-13	3.631
466	R12	72	0.207329646	0.034208649	2.85072E-12	19.647
467	R12	72	0.056831898	0.008005156	6.67096E-13	4.598
468	R12	72	0.167401077	0.027256598	2.27138E-12	15.655
469	R12	72	0.037262774	0.004597933	3.83161E-13	2.641
470	R12	72	0.291724914	0.048902894	4.07524E-12	28.087
471	R12	72	0.274379556	0.045882855	3.82357E-12	26.352
472	R12	72	0.274503489	0.045904434	3.82537E-12	26.365
473	R12	72	0.033757898	0.003987691	3.32308E-13	2.290
474	R12	72	0.051284419	0.007039272	5.86606E-13	4.043

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475	R12	72	0.168408014	0.027431918	2.28599E-12	15.755
476	R12	72	0.355451355	0.059998444	4.99987E-12	34.460
477	R12	72	0.05219927	0.007198559	5.9988E-13	4.134
478	R12	72	0.238855349	0.039697658	3.30814E-12	22.800
479	R12	72	0.02611862	0.0026576	2.21467E-13	1.526
480	R12	72	0.02584449	0.00260987	2.17489E-13	1.499
481	R12	72	0.13711698	0.021983767	1.83198E-12	12.626
482	R12	72	0.026854392	0.002785706	2.32142E-13	1.600
483	R12	72	0.02247772	0.002023674	1.6864E-13	1.162
484	R12	72	0.046776044	0.006254309	5.21192E-13	3.592
485	R12	72	0.141158518	0.022687448	1.89062E-12	13.030
486	R12	72	0.02899718	0.003158792	2.63233E-13	1.814
487	R12	72	0.082730951	0.012514497	1.04287E-12	7.188
488	R12	72	0.059466763	0.008463918	7.05326E-13	4.861
489	R12	72	0.030298557	0.003385378	2.82115E-13	1.944
490	R12	72	0.024397532	0.002357937	1.96495E-13	1.354
491	R12	72	0.026943875	0.002801286	2.33441E-13	1.609
492	R12	72	0.036678429	0.004496191	3.74683E-13	2.582
493	R12	72	0.071860288	0.010621782	8.85148E-13	6.101
494	R12	72	0.057105864	0.008052857	6.71071E-13	4.625
495	R12	72	0.068769125	0.010083573	8.40298E-13	5.791
496	R12	72	0.024915674	0.002448152	2.04013E-13	1.406
497	R12	72	0.072700427	0.01076806	8.97338E-13	6.185
498	R12	72	0.022162939	0.001968867	1.64072E-13	1.131
499	R12	72	0.025432762	0.002538183	2.11515E-13	1.458
500	R12	72	0.026912891	0.002795892	2.32991E-13	1.606
501	R12	72	0.36006558	0.060801837	5.06682E-12	34.921
502	R12	72	0.046224331	0.006158249	5.13187E-13	3.537
503	R12	72	0.027434515	0.002886713	2.40559E-13	1.658
504	R12	72	0.10457468	0.016317756	1.35981E-12	9.372

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505	R12	72	0.150198929	0.024261494	2.02179E-12	13.934
506	R12	72	0.02343233	0.002189884	1.8249E-13	1.258
507	R12	72	0.028071897	0.002997689	2.49807E-13	1.722
508	R12	72	0.02322959	0.002154584	1.79549E-13	1.237
509	R12	72	0.06329799	0.009130981	7.60915E-13	5.244
510	R12	72	0.091531954	0.014046859	1.17057E-12	8.068
511	R12	72	0.021992428	0.001939179	1.61598E-13	1.114
512	R12	72	0.049584066	0.00674322	5.61935E-13	3.873
513	R12	72	0.2568838	0.042836631	3.56972E-12	24.603
514	R12	72	0.031231835	0.003547873	2.95656E-13	2.038
515	R12	72	0.024989078	0.002460933	2.05078E-13	1.413
516	R12	72	0.146931527	0.0236926	1.97438E-12	13.608
517	R12	72	0.020379203	0.001658297	1.38191E-13	0.952
518	R12	72	0.094984025	0.014647906	1.22066E-12	8.413
519	R12	72	0.025682743	0.002581708	2.15142E-13	1.483
520	R12	72	0.035072591	0.004216595	3.51383E-13	2.422
521	R12	72	0.020389823	0.001660146	1.38346E-13	0.953
522	R12	72	0.012447589	0.000277306	2.31089E-14	0.159
523	R12	72	0.023847377	0.002262148	1.88512E-13	1.299
524	R12	72	0.027846531	0.00295845	2.46537E-13	1.699
525	R12	72	0.018019297	0.001247409	1.03951E-13	0.716
526	R12	72	0.268188291	0.044804881	3.73374E-12	25.733
527	R12	72	0.011020022	2.87496E-05	2.3958E-15	0.017
528	R12	72	0.025743138	0.002592223	2.16019E-13	1.489
529	R12	72	0.107451545	0.016818654	1.40155E-12	9.660
530	R12	72	0.10671898	0.016691105	1.39093E-12	9.586
531	R12	72	0.301577746	0.050618392	4.2182E-12	29.072
532	R12	72	0.321992328	0.05417282	4.5144E-12	31.114
533	R12	72	0.275850931	0.04613904	3.84492E-12	26.500
534	R12	72	0.04198583	0.005420274	4.5169E-13	3.113

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535	R12	72	0.030499516	0.003420367	2.85031E-13	1.964
536	R12	72	0.050629548	0.006925251	5.77104E-13	3.977
537	R12	72	0.094583475	0.014578166	1.21485E-12	8.373
538	R12	72	0.18576107	0.030453297	2.53777E-12	17.491
539	R12	72	0.05227931	0.007212495	6.01041E-13	4.142
540	R12	72	0.095653417	0.014764456	1.23037E-12	8.480
541	R12	72	0.026310371	0.002690986	2.24249E-13	1.546
542	R12	72	0.209569958	0.034598714	2.88323E-12	19.872
543	R12	72	0.019964879	0.001586158	1.3218E-13	0.911
544	R12	72	0.35076792	0.059183001	4.93192E-12	33.991
545	R12	72	0.289609172	0.048534517	4.04454E-12	27.875
546	R12	72	0.029788576	0.003296584	2.74715E-13	1.893
547	R12	72	0.093057617	0.014312495	1.19271E-12	8.220
548	R12	72	0.281618898	0.047143313	3.92861E-12	27.076
549	R12	72	0.145901283	0.023513222	1.95944E-12	13.505
550	R12	72	0.085608138	0.01301545	1.08462E-12	7.475
551	R12	72	0.039164165	0.004928988	4.10749E-13	2.831
552	R12	72	0.024060476	0.002299252	1.91604E-13	1.321
553	R12	72	0.051625498	0.007098658	5.91555E-13	4.077
554	R12	72	0.03968254	0.005019243	4.1827E-13	2.883
555	R12	72	0.258697792	0.043152469	3.59604E-12	24.784
556	R12	72	0.052107776	0.007182628	5.98552E-13	4.125
557	R12	72	0.068013003	0.009951922	8.29327E-13	5.716
558	R12	72	0.041866433	0.005399486	4.49957E-13	3.101
559	R12	72	0.050435866	0.006891529	5.74294E-13	3.958
560	R12	72	0.331909124	0.055899455	4.65829E-12	32.105
561	R12	72	0.31385664	0.052756297	4.39636E-12	30.300
562	R12	72	0.03381014	0.003996787	3.33066E-13	2.296
563	R12	72	0.0290737	0.003172115	2.64343E-13	1.822
564	R12	72	0.022776243	0.002075651	1.72971E-13	1.192

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565	R12	72	0.432781091	0.073462494	6.12187E-12	42.193
566	R12	72	0.191144791	0.031390668	2.61589E-12	18.029
567	R12	72	0.020559405	0.001689672	1.40806E-13	0.970
568	R12	72	0.033523165	0.003946821	3.28902E-13	2.267
569	R12	72	0.023146253	0.002140074	1.7834E-13	1.229
570	R12	72	0.014502643	0.000635116	5.29264E-14	0.365
571	R12	72	0.026118482	0.002657576	2.21465E-13	1.526
572	R12	72	0.059908337	0.008540801	7.11733E-13	4.905
573	R12	72	0.016049667	0.000904472	7.53727E-14	0.519
574	R12	72	0.043915824	0.00575631	4.79692E-13	3.306
575	R12	72	0.019085885	0.001433115	1.19426E-13	0.823
576	R12	72	0.220653341	0.036528466	3.04404E-12	20.980
577	R12	72	0.029318542	0.003214745	2.67895E-13	1.846
578	R12	72	0.019483936	0.00150242	1.25202E-13	0.863
579	R12	72	0.099451313	0.015425716	1.28548E-12	8.860
580	R12	72	0.246665779	0.041057549	3.42146E-12	23.581
581	R12	72	0.018352058	0.001305346	1.08779E-13	0.750
582	R12	72	0.050913242	0.006974646	5.8122E-13	4.006
583	R12	72	0.037956212	0.004718669	3.93222E-13	2.710
584	R12	72	0.019704433	0.001540811	1.28401E-13	0.885
585	R12	72	0.08477936	0.01287115	1.0726E-12	7.392
586	R12	72	0.031150801	0.003533764	2.9448E-13	2.030
587	R12	72	0.076591671	0.011445573	9.53798E-13	6.574
588	R12	72	0.050984101	0.006986983	5.82249E-13	4.013
589	R12	72	0.046957772	0.00628595	5.23829E-13	3.610
590	R12	72	0.054855113	0.007660973	6.38414E-13	4.400
591	R12	72	0.014536341	0.000640984	5.34153E-14	0.368
592	R12	72	0.150948435	0.024391992	2.03267E-12	14.009
593	R12	72	0.159131335	0.025816735	2.15139E-12	14.828
594	R12	72	0.235916603	0.039185986	3.2655E-12	22.506

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595	R12	72	0.254860359	0.042484325	3.54036E-12	24.401
596	R12	72	0.022465272	0.002021507	1.68459E-13	1.161
597	R12	72	0.194089474	0.031903373	2.65861E-12	18.323
598	R12	72	0.025302109	0.002515435	2.0962E-13	1.445
599	R12	72	0.033776701	0.003990965	3.3258E-13	2.292
600	R12	72	0.017809561	0.001210891	1.00908E-13	0.695
601	R12	72	0.01787884	0.001222953	1.01913E-13	0.702
602	R12	72	0.142695527	0.02295506	1.91292E-12	13.184
603	R12	72	0.068733829	0.010077427	8.39786E-13	5.788
604	R12	72	0.149726989	0.024179324	2.01494E-12	13.887
605	R12	72	0.030094194	0.003349796	2.7915E-13	1.924
606	R12	72	0.016026525	0.000900443	7.50369E-14	0.517
607	R12	72	0.03714999	0.004578296	3.81525E-13	2.630
608	R12	72	0.014292921	0.000598601	4.98834E-14	0.344
609	R12	72	0.015256146	0.00076631	6.38592E-14	0.440
610	R12	72	0.024713684	0.002412983	2.01082E-13	1.386
611	R12	72	0.015549488	0.000817385	6.81154E-14	0.469
612	R12	72	0.02333427	0.00217281	1.81068E-13	1.248
613	R12	72	0.015970002	0.000890601	7.42168E-14	0.512
614	R12	72	0.022474564	0.002023125	1.68594E-13	1.162
615	R12	72	0.071919023	0.010632008	8.86001E-13	6.106
616	R12	72	0.066505625	0.00968947	8.07456E-13	5.565
617	R12	72	0.077080355	0.011530659	9.60888E-13	6.623
618	R12	72	0.017896119	0.001225962	1.02163E-13	0.704
619	R12	72	0.035909529	0.004362316	3.63526E-13	2.505
620	R12	72	0.015715667	0.000846319	7.05266E-14	0.486
621	R12	72	0.03298153	0.003852516	3.21043E-13	2.213
622	R12	72	0.02194458	0.001930848	1.60904E-13	1.109
623	R12	72	0.017763843	0.001202931	1.00244E-13	0.691
624	R12	72	0.03238392	0.003748465	3.12372E-13	2.153

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625	R12	72	0.016592748	0.000999029	8.32524E-14	0.574
626	R12	72	0.018808773	0.001384866	1.15406E-13	0.795
627	R12	72	0.016112267	0.000915371	7.6281E-14	0.526
628	R12	72	0.0286291	0.003094705	2.57892E-13	1.777
629	R12	72	0.049141152	0.006666103	5.55509E-13	3.829
630	R12	72	0.020702312	0.001714554	1.4288E-13	0.985
631	R12	72	0.01252319	0.000290469	2.42058E-14	0.167
632	R12	72	0.035966247	0.004372191	3.64349E-13	2.511
633	R12	72	0.02780083	0.002950493	2.45874E-13	1.695
634	R12	72	0.028552457	0.00308136	2.5678E-13	1.770
635	R12	72	0.265342477	0.04430939	3.69245E-12	25.449
636	R12	72	0.020748656	0.001722623	1.43552E-13	0.989
637	R12	72	0.136130536	0.021812016	1.81767E-12	12.528
638	R12	72	0.089641452	0.013717699	1.14314E-12	7.879
639	R12	72	0.019396557	0.001487206	1.23934E-13	0.854
640	R12	72	0.02878464	0.003121786	2.60149E-13	1.793
641	R12	72	0.026105491	0.002655314	2.21276E-13	1.525
642	R12	72	0.012085949	0.00021434	1.78617E-14	0.123
643	R12	72	0.013093286	0.00038973	3.24775E-14	0.224
644	R12	72	0.023140487	0.00213907	1.78256E-13	1.229
645	R12	72	0.040462428	0.005155031	4.29586E-13	2.961
646	R12	72	0.051037839	0.006996339	5.83028E-13	4.018
647	R12	72	0.186108166	0.03051373	2.54281E-12	17.525
648	R12	72	0.020486822	0.001677035	1.39753E-13	0.963
649	R12	72	0.05111821	0.007010333	5.84194E-13	4.026
650	R12	72	0.227885179	0.037787618	3.14897E-12	21.703
651	R12	72	0.056368579	0.007924486	6.60374E-13	4.551
652	R12	72	0.014843612	0.000694483	5.78736E-14	0.399
653	R12	72	0.018486424	0.001328741	1.10728E-13	0.763
654	R12	72	0.024242433	0.002330933	1.94244E-13	1.339

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655	R12	72	0.026312349	0.00269133	2.24278E-13	1.546
656	R12	72	0.022202866	0.001975819	1.64652E-13	1.135
657	R12	72	0.02621232	0.002673914	2.22826E-13	1.536
658	R12	72	0.101046491	0.015703455	1.30862E-12	9.019
659	R12	72	0.030094403	0.003349832	2.79153E-13	1.924
660	R12	72	0.121871237	0.019329298	1.61077E-12	11.102
661	R12	72	0.043175104	0.005627341	4.68945E-13	3.232
662	R12	72	0.027615321	0.002918194	2.43183E-13	1.676
663	R12	72	0.027837724	0.002956916	2.4641E-13	1.698
664	R12	72	0.019453207	0.00149707	1.24756E-13	0.860
665	R12	72	0.020195847	0.001626373	1.35531E-13	0.934
666	R12	72	0.018596792	0.001347958	1.1233E-13	0.774
667	R12	72	0.035142128	0.004228702	3.52392E-13	2.429
668	R12	72	0.023139627	0.00213892	1.78243E-13	1.228
669	R12	72	0.022512031	0.002029648	1.69137E-13	1.166
670	R12	72	0.014861291	0.000697561	5.81301E-14	0.401
671	R12	72	0.018877561	0.001396843	1.16404E-13	0.802
672	R12	72	0.01547217	0.000803923	6.69936E-14	0.462
673	R12	72	0.377657871	0.063864869	5.32207E-12	36.680
674	R12	72	0.027012418	0.002813221	2.34435E-13	1.616
675	R12	72	0.021849687	0.001914326	1.59527E-13	1.099
676	R12	72	0.01479383	0.000685816	5.71513E-14	0.394
677	R12	72	0.012572966	0.000299136	2.4928E-14	0.172
678	R12	72	0.120412389	0.019075295	1.58961E-12	10.956
679	R12	72	0.011627907	0.00013459	1.12158E-14	0.077
680	R12	72	0.048187239	0.006500015	5.41668E-13	3.733
681	R12	72	0.068244545	0.009992237	8.32686E-13	5.739
682	R12	72	0.020236079	0.001633377	1.36115E-13	0.938
683	R12	72	0.01465798	0.000662162	5.51802E-14	0.380
684	R12	72	0.028415009	0.003057429	2.54786E-13	1.756

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685	R12	72	0.020408163	0.001663339	1.38612E-13	0.955
686	R12	72	0.012038393	0.00020606	1.71717E-14	0.118
687	R12	72	0.01179593	0.000163845	1.36537E-14	0.094
688	R12	72	0.012851398	0.000347615	2.89679E-14	0.200
689	R12	72	0.03638254	0.004444673	3.70389E-13	2.553
690	R12	72	0.016943935	0.001060175	8.83479E-14	0.609
691	R12	72	0.009274193	-0.000275221	-2.2935E-14	-0.158
692	R12	72	0.01497292	0.000716997	5.97498E-14	0.412
693	R12	72	0.014012146	0.000549715	4.58096E-14	0.316
694	R12	72	0.019621712	0.001526409	1.27201E-13	0.877
695	R12	72	0.022301876	0.001993058	1.66088E-13	1.145
696	R12	72	0.017600575	0.001174504	9.78753E-14	0.675
697	R12	72	0.014327952	0.0006047	5.03917E-14	0.347
698	R12	72	0.013300339	0.000425781	3.54817E-14	0.245
699	R12	72	0.160929675	0.026129848	2.17749E-12	15.007
700	R12	72	0.01386202	0.000523576	4.36313E-14	0.301
701	R12	72	0.020357804	0.001654571	1.37881E-13	0.950
702	R12	72	0.051708637	0.007113133	5.92761E-13	4.085
703	R12	72	0.023791248	0.002252376	1.87698E-13	1.294
704	R12	72	0.014907333	0.000705578	5.87981E-14	0.405
705	R12	72	0.014131341	0.000570468	4.7539E-14	0.328
706	R12	72	0.024691358	0.002409096	2.00758E-13	1.384
707	R12	72	0.014358972	0.000610101	5.08418E-14	0.350
708	R12	72	0.015673108	0.000838909	6.99091E-14	0.482
709	R12	72	0.019162071	0.00144638	1.20532E-13	0.831
710	R12	72	0.020139745	0.001616605	1.34717E-13	0.928
711	R12	72	0.011443662	0.00010251	8.54254E-15	0.059
712	R12	72	0.016042785	0.000903274	7.52728E-14	0.519
713	R12	72	0.014174665	0.000578011	4.81676E-14	0.332
714	R12	72	0.01294033	0.000363099	3.02582E-14	0.209

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715	R12	72	0.013780334	0.000509354	4.24461E-14	0.293
716	R12	72	0.012104647	0.000217596	1.8133E-14	0.125
717	R12	72	0.024721879	0.00241441	2.01201E-13	1.387
718	R12	72	0.010064412	-0.000137634	-1.14695E-14	-0.079
719	R12	72	0.031182016	0.003539199	2.94933E-13	2.033
720	R12	72	0.016763376	0.001028738	8.57281E-14	0.591
721	R12	72	0.019076074	0.001431407	1.19284E-13	0.822
722	R12	72	0.067544366	0.009870327	8.22527E-13	5.669
723	R12	72	0.014841908	0.000694186	5.78489E-14	0.399
724	R12	72	0.020318017	0.001647644	1.37304E-13	0.946
725	R12	72	0.019618535	0.001525855	1.27155E-13	0.876
726	R12	72	0.021532621	0.001859121	1.54927E-13	1.068
727	R12	72	0.022281167	0.001989452	1.65788E-13	1.143
728	R12	72	0.031771669	0.003641864	3.03489E-13	2.092
729	R12	72	0.008995503	-0.000323744	-2.69787E-14	-0.186
730	R12	72	0.016885553	0.00105001	8.75008E-14	0.603
731	R12	72	0.028659957	0.003100077	2.5834E-13	1.781
732	R12	72	0.01556739	0.000820502	6.83752E-14	0.471
733	R12	72	0.016405127	0.000966362	8.05302E-14	0.555
734	R12	72	0.022153846	0.001967284	1.6394E-13	1.130
735	R12	72	0.088560876	0.013529558	1.12746E-12	7.771
736	R12	72	0.011484823	0.000109677	9.13975E-15	0.063
737	R12	72	0.021164021	0.001794943	1.49579E-13	1.031
738	R12	72	0.032456631	0.003761125	3.13427E-13	2.160
739	R12	72	0.02387934	0.002267714	1.88976E-13	1.302
740	R12	72	0.015601781	0.00082649	6.88741E-14	0.475
741	R12	72	0.026835044	0.002782338	2.31861E-13	1.598
742	R12	72	0.017487345	0.001154789	9.62324E-14	0.663
743	R12	72	0.012540641	0.000293508	2.4459E-14	0.169
744	R12	72	0.017211711	0.001106798	9.22332E-14	0.636

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745	R12	72	0.010468319	-6.73087E-05	-5.60906E-15	-0.039
746	R12	72	0.019159456	0.001445924	1.20494E-13	0.830
747	R12	72	0.02133161	0.001824123	1.5201E-13	1.048
748	R12	72	0.022997029	0.002114092	1.76174E-13	1.214
749	R12	72	0.009383379	-0.00025621	-2.13508E-14	-0.147
750	R12	72	0.013480392	0.00045713	3.80942E-14	0.263
751	R12	72	0.010018215	-0.000145677	-1.21398E-14	-0.084
752	R12	72	0.024157025	0.002316062	1.93005E-13	1.330
753	R12	72	0.029814671	0.003301127	2.75094E-13	1.896
754	R12	72	0.013266242	0.000419844	3.4987E-14	0.241
755	R12	72	0.018319647	0.001299703	1.08309E-13	0.746
756	R12	72	0.014268728	0.000594389	4.95324E-14	0.341
757	R12	72	0.01631321	0.000950358	7.91965E-14	0.546
758	R12	72	0.014509576	0.000636323	5.3027E-14	0.365
759	R12	72	0.014328063	0.00060472	5.03933E-14	0.347
760	R12	72	0.036703155	0.004500496	3.75041E-13	2.585
761	R12	72	0.011329754	8.26777E-05	6.88981E-15	0.047
762	R12	72	0.019350811	0.001479242	1.2327E-13	0.850
763	R12	72	0.017908302	0.001228083	1.0234E-13	0.705
764	R12	72	0.018404908	0.001314548	1.09546E-13	0.755
765	R12	72	0.015904573	0.000879209	7.32674E-14	0.505
766	R12	72	0.01591896	0.000881714	7.34762E-14	0.506
767	R12	72	0.01779603	0.001208535	1.00711E-13	0.694
768	R12	72	0.020080321	0.001606258	1.33855E-13	0.923
769	R12	72	0.017312074	0.001124273	9.36894E-14	0.646
770	R12	72	0.064871481	0.009404945	7.83745E-13	5.402
771	R12	72	0.016441356	0.00097267	8.10558E-14	0.559
772	R12	72	0.036690656	0.00449832	3.7486E-13	2.584
773	R12	72	0.019697965	0.001539685	1.28307E-13	0.884
774	R12	72	0.015459723	0.000801756	6.6813E-14	0.460

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775	R12	72	0.013782539	0.000509737	4.24781E-14	0.293
776	R12	72	0.010111223	-0.000129483	-1.07903E-14	-0.074
777	R12	72	0.072319202	0.010701684	8.91807E-13	6.146
778	R12	72	0.01867762	0.001362031	1.13503E-13	0.782
779	R12	72	0.012093022	0.000215572	1.79643E-14	0.124
780	R12	72	0.0125	0.000286432	2.38693E-14	0.165
781	R12	72	0.006398539	-0.000775907	-6.46589E-14	-0.446
782	R12	72	0.010676157	-3.11216E-05	-2.59347E-15	-0.018
783	R12	72	0.013192612	0.000407024	3.39187E-14	0.234
784	R12	72	0.019424461	0.001492065	1.24339E-13	0.857
785	R12	72	0.017915309	0.001229303	1.02442E-13	0.706
786	R12	72	0.012254903	0.000243757	2.03131E-14	0.140
787	R12	72	0.01169021	0.000145437	1.21198E-14	0.084
788	R12	72	0.014157974	0.000575105	4.79254E-14	0.330
789	R12	72	0.018783539	0.001380472	1.15039E-13	0.793
790	R12	72	0.01532258	0.000777877	6.48231E-14	0.447
791	R12	72	0.023622047	0.002222916	1.85243E-13	1.277
792	R12	72	0.004615385	-0.001086376	-9.05313E-14	-0.624
793	R12	72	0.01469559	0.000668711	5.57259E-14	0.384
794	R07	168	0.346571806	0.025051031	2.08759E-12	33.572
795	R07	168	0.217215868	0.015398554	1.28321E-12	20.636
796	R07	168	0.042528133	0.002363441	1.96953E-13	3.167
797	R07	168	0.291769028	0.020961675	1.74681E-12	28.091
798	R07	168	0.052588087	0.00311411	2.59509E-13	4.173
799	R07	168	0.31013978	0.022332491	1.86104E-12	29.928
800	R07	168	0.095866522	0.006343526	5.28627E-13	8.501
801	R07	168	0.057625206	0.003489977	2.90831E-13	4.677
802	R07	168	0.131416362	0.008996237	7.49686E-13	12.056
803	R07	168	0.404822685	0.029397683	2.44981E-12	39.397
804	R07	168	0.102162412	0.006813322	5.67777E-13	9.131

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805	R07	168	0.177009342	0.012398363	1.0332E-12	16.615
806	R07	168	0.251568794	0.017961953	1.49683E-12	24.071
807	R07	168	0.439903509	0.032015397	2.66795E-12	42.905
808	R07	168	0.498335379	0.036375555	3.0313E-12	48.748
809	R07	168	0.108559476	0.007290668	6.07556E-13	9.770
810	R07	168	0.405190525	0.029425132	2.45209E-12	39.434
811	R07	168	0.410770149	0.02984148	2.48679E-12	39.992
812	R07	168	0.366337741	0.026525956	2.2105E-12	35.548
813	R07	168	0.374298346	0.027119972	2.26E-12	36.344
814	R07	168	0.240372046	0.017126457	1.4272E-12	22.952
815	R07	168	0.488001117	0.035604417	2.96703E-12	47.715
816	R07	168	0.445425151	0.03242742	2.70228E-12	43.457
817	R07	168	0.441452408	0.032130976	2.67758E-12	43.060
818	R07	168	0.291080617	0.020910306	1.74253E-12	28.023
819	R07	168	0.261928828	0.018735014	1.56125E-12	25.107
820	R07	168	0.135418403	0.009294868	7.74572E-13	12.456
821	R07	168	0.292047675	0.020982467	1.74854E-12	28.119
822	R07	168	0.208978082	0.014783855	1.23199E-12	19.812
823	R07	168	0.46199163	0.033663602	2.8053E-12	45.114
824	R07	168	0.100183556	0.006665661	5.55472E-13	8.933
825	R07	168	0.156752264	0.01088679	9.07232E-13	14.590
826	R07	168	0.194096803	0.013673421	1.13945E-12	18.324
827	R07	168	0.160331135	0.011153844	9.29487E-13	14.948
828	R07	168	0.359047713	0.025981977	2.16516E-12	34.819
829	R07	168	0.302154431	0.021736629	1.81139E-12	29.130
830	R07	168	0.200349201	0.014139972	1.17833E-12	18.949
831	R07	168	0.20737437	0.014664187	1.22202E-12	19.652
832	R07	168	0.168011571	0.011726954	9.77246E-13	15.716
833	R07	168	0.212432577	0.015041628	1.25347E-12	20.158
834	R07	168	0.018555635	0.000574625	4.78854E-14	0.770

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835	R07	168	0.557658507	0.040802218	3.40018E-12	54.680
836	R07	168	0.206713552	0.014614877	1.21791E-12	19.586
837	R07	168	0.309859155	0.022311551	1.8593E-12	29.900
838	R07	168	0.22165818	0.015730038	1.31084E-12	21.080
839	R07	168	0.17497049	0.012246225	1.02052E-12	16.412
840	R07	168	0.494558846	0.036093752	3.00781E-12	48.370
841	R07	168	0.258466536	0.018476659	1.53972E-12	24.761
842	R07	168	0.642668318	0.047145608	3.9288E-12	63.181
843	R07	168	0.655226221	0.048082673	4.00689E-12	64.437
844	R07	168	0.109005924	0.007323981	6.10332E-13	9.815
845	R07	168	0.316241018	0.022787763	1.89898E-12	30.539
846	R07	168	0.354321548	0.025629313	2.13578E-12	34.347
847	R07	168	0.020521915	0.000721348	6.01123E-14	0.967
848	R07	168	0.381265209	0.027639836	2.30332E-12	37.041
849	R07	168	0.10932381	0.007347702	6.12308E-13	9.847
850	R07	168	0.356164207	0.025766812	2.14723E-12	34.531
851	R07	168	0.063377047	0.003919177	3.26598E-13	5.252
852	R07	168	0.430225858	0.031293256	2.60777E-12	41.937
853	R07	168	0.067173639	0.004202477	3.50206E-13	5.632
854	R07	168	0.402920129	0.029255716	2.43798E-12	39.207
855	R07	168	0.251926782	0.017988666	1.49906E-12	24.107
856	R07	168	0.408558909	0.029676479	2.47304E-12	39.770
857	R07	168	0.463227533	0.033755825	2.81299E-12	45.237
858	R07	168	0.10523699	0.007042745	5.86895E-13	9.438
859	R07	168	0.313799176	0.022605554	1.8838E-12	30.294
860	R07	168	0.046548801	0.002663461	2.21955E-13	3.569
861	R07	168	0.122001737	0.008293723	6.91144E-13	11.115
862	R07	168	0.234768937	0.016708356	1.39236E-12	22.391
863	R07	168	0.056870494	0.003433661	2.86138E-13	4.602
864	R07	168	0.438117317	0.031882113	2.65684E-12	42.726

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865	R07	168	0.526877358	0.038505344	3.20878E-12	51.602
866	R07	168	0.449251099	0.03271291	2.72608E-12	43.840
867	R07	168	0.386562696	0.028035132	2.33626E-12	37.571
868	R07	168	0.054686289	0.003270677	2.72556E-13	4.383
869	R07	168	0.301012247	0.021651399	1.80428E-12	29.016
870	R07	168	0.173719607	0.012152885	1.01274E-12	16.286
871	R07	168	0.129349019	0.008841973	7.36831E-13	11.849
872	R07	168	0.265170764	0.018976925	1.58141E-12	25.432
873	R07	168	0.098941455	0.006572976	5.47748E-13	8.809
874	R07	168	0.149844787	0.010371357	8.6428E-13	13.899
875	R07	168	0.189298179	0.01331535	1.10961E-12	17.844
876	R07	168	0.182716951	0.012824262	1.06869E-12	17.186
877	R07	168	0.383520403	0.027808118	2.31734E-12	37.267
878	R07	168	0.161579599	0.011247003	9.3725E-13	15.072
879	R07	168	0.389557977	0.028258638	2.35489E-12	37.870
880	R07	168	0.040549	0.002215759	1.84647E-13	2.969
881	R07	168	0.064979279	0.004038735	3.36561E-13	5.412
882	R07	168	0.198253878	0.01398362	1.1653E-12	18.740
883	R07	168	0.023581367	0.000949643	7.91369E-14	1.273
884	R07	168	0.177217257	0.012413878	1.03449E-12	16.636
885	R07	168	0.153162153	0.010618898	8.84908E-13	14.231
886	R07	168	0.057323649	0.003467475	2.88956E-13	4.647
887	R07	168	0.163585988	0.011396719	9.49727E-13	15.273
888	R07	168	0.290121428	0.020838732	1.73656E-12	27.927
889	R07	168	0.069484026	0.004374877	3.64573E-13	5.863
890	R07	168	0.122031684	0.008295957	6.9133E-13	11.118
891	R07	168	0.094203988	0.006219468	5.18289E-13	8.335
892	R07	168	0.027270111	0.001224895	1.02075E-13	1.642
893	R07	168	0.162068005	0.011283448	9.40287E-13	15.121
894	R07	168	0.366739998	0.026555972	2.213E-12	35.589

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895	R07	168	0.175284848	0.012269682	1.02247E-12	16.443
896	R07	168	0.355820738	0.025741182	2.1451E-12	34.497
897	R07	168	0.3049802	0.021947486	1.82896E-12	29.413
898	R07	168	0.093628515	0.006176527	5.14711E-13	8.277
899	R07	168	0.095735587	0.006333755	5.27813E-13	8.488
900	R07	168	0.327575602	0.023633544	1.96946E-12	31.672
901	R07	168	0.23350325	0.016613911	1.38449E-12	22.265
902	R07	168	0.248896581	0.017762554	1.48021E-12	23.804
903	R07	168	0.105107513	0.007033084	5.8609E-13	9.425
904	R07	168	0.033779899	0.001710652	1.42554E-13	2.292
905	R07	168	0.281076604	0.020163811	1.68032E-12	27.022
906	R07	168	0.154585652	0.010725118	8.9376E-13	14.373
907	R07	168	0.053554155	0.003186197	2.65516E-13	4.270
908	R07	168	0.272364793	0.01951374	1.62615E-12	26.151
909	R07	168	0.391647043	0.028414524	2.36788E-12	38.079
910	R07	168	0.170317201	0.011898999	9.91583E-13	15.946
911	R07	168	0.255329457	0.018242572	1.52021E-12	24.447
912	R07	168	0.058090671	0.00352471	2.93726E-13	4.724
913	R07	168	0.19050245	0.013405212	1.1171E-12	17.965
914	R07	168	0.077286609	0.004957102	4.13092E-13	6.643
915	R07	168	0.11231286	0.007570743	6.30895E-13	10.146
916	R07	168	0.225315673	0.016002958	1.33358E-12	21.446
917	R07	168	0.271765972	0.019469057	1.62242E-12	26.091
918	R07	168	0.126164203	0.008604324	7.17027E-13	11.531
919	R07	168	0.051693292	0.003047341	2.53945E-13	4.084
920	R07	168	0.421150278	0.030616041	2.55134E-12	41.030
921	R07	168	0.01724585	0.000476889	3.97408E-14	0.639
922	R07	168	0.094788403	0.006263077	5.21923E-13	8.393
923	R07	168	0.017587315	0.000502369	4.18641E-14	0.673
924	R07	168	0.058043313	0.003521176	2.93431E-13	4.719

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925	R07	168	0.055004509	0.003294422	2.74535E-13	4.415
926	R07	168	0.397820682	0.028875197	2.40627E-12	38.697
927	R07	168	0.144237957	0.009952978	8.29415E-13	13.338
928	R07	168	0.228479532	0.016239044	1.35325E-12	21.762
929	R07	168	0.527749342	0.038570411	3.2142E-12	51.689
930	R07	168	0.310250937	0.022340786	1.86173E-12	29.940
931	R07	168	0.183820734	0.012906626	1.07555E-12	17.297
932	R07	168	0.173064398	0.012103993	1.00867E-12	16.221
933	R07	168	0.033118979	0.001661335	1.38445E-13	2.226
934	R07	168	0.052763805	0.003127222	2.60602E-13	4.191
935	R07	168	0.413601913	0.030052785	2.5044E-12	40.275
936	R07	168	0.233700264	0.016628612	1.38572E-12	22.285
937	R07	168	0.406336798	0.029510666	2.45922E-12	39.548
938	R07	168	0.059580917	0.003635911	3.02993E-13	4.873
939	R07	168	0.047498271	0.00273431	2.27859E-13	3.664
940	R07	168	0.05832367	0.003542096	2.95175E-13	4.747
941	R07	168	0.403179173	0.029275045	2.43959E-12	39.232
942	R07	168	0.064263057	0.00398529	3.32108E-13	5.341
943	R07	168	0.162459391	0.011312653	9.42721E-13	15.160
944	R07	168	0.118275316	0.008015659	6.67972E-13	10.742
945	R07	168	0.069547935	0.004379645	3.6497E-13	5.869
946	R07	168	0.439792854	0.03200714	2.66726E-12	42.894
947	R07	168	0.427108783	0.031060661	2.58839E-12	41.625
948	R07	168	0.243933661	0.017392223	1.44935E-12	23.308
949	R07	168	0.055074762	0.003299664	2.74972E-13	4.422
950	R07	168	0.315021136	0.022696736	1.89139E-12	30.417
951	R07	168	0.173438727	0.012131926	1.01099E-12	16.258
952	R07	168	0.408688269	0.029686131	2.47384E-12	39.783
953	R07	168	0.270894201	0.019404005	1.617E-12	26.004
954	R07	168	0.026201402	0.001145148	9.5429E-14	1.535

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955	R07	168	0.022812784	0.000892291	7.43576E-14	1.196
956	R07	168	0.064816666	0.004026601	3.3555E-13	5.396
957	R07	168	0.113613187	0.007667773	6.38981E-13	10.276
958	R07	168	0.257901595	0.018434504	1.53621E-12	24.705
959	R07	168	0.453219378	0.033009021	2.75075E-12	44.236
960	R07	168	0.174340479	0.012199214	1.0166E-12	16.349
961	R07	168	0.216572773	0.015350567	1.27921E-12	20.572
962	R07	168	0.084039623	0.005461008	4.55084E-13	7.318
963	R07	168	0.063813792	0.003951767	3.29314E-13	5.296
964	R07	168	0.380947074	0.027616097	2.30134E-12	37.009
965	R07	168	0.073536249	0.004677252	3.89771E-13	6.268
966	R07	168	0.340216934	0.024576834	2.04807E-12	32.936
967	R07	168	0.061027835	0.00374388	3.1199E-13	5.017
968	R07	168	0.055168717	0.003306675	2.75556E-13	4.431
969	R07	168	0.303392	0.021828975	1.81908E-12	29.254
970	R07	168	0.099509851	0.006615389	5.51282E-13	8.865
971	R07	168	0.079734216	0.005139741	4.28312E-13	6.888
972	R07	168	0.367833209	0.026637547	2.2198E-12	35.698
973	R07	168	0.083232806	0.005400804	4.50067E-13	7.238
974	R07	168	0.535218574	0.039127761	3.26065E-12	52.436
975	R07	168	0.232791378	0.016560791	1.38007E-12	22.194
976	R07	168	0.145183689	0.010023548	8.35296E-13	13.433
977	R07	168	0.658421481	0.048321102	4.02676E-12	64.757
978	R07	168	0.350118372	0.025315674	2.10964E-12	33.926
979	R07	168	0.515589973	0.037663084	3.13859E-12	50.474
980	R07	168	0.113698034	0.007674104	6.39509E-13	10.284
981	R07	168	0.059297017	0.003614727	3.01227E-13	4.844
982	R07	168	0.223923571	0.01589908	1.32492E-12	21.307
983	R07	168	0.425222379	0.030919899	2.57666E-12	41.437
984	R07	168	0.033109281	0.001660611	1.38384E-13	2.225

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985	R07	168	0.092707469	0.006107799	5.08983E-13	8.185
986	R07	168	0.193247128	0.013610019	1.13417E-12	18.239
987	R07	168	0.24126519	0.017193103	1.43276E-12	23.041
988	R07	168	0.438599892	0.031918122	2.65984E-12	42.774
989	R07	168	0.08753316	0.005721694	4.76808E-13	7.668
990	R07	168	0.061334772	0.003766783	3.13899E-13	5.048
991	R07	168	0.173046199	0.012102635	1.00855E-12	16.219
992	R07	168	0.072831418	0.004624657	3.85388E-13	6.198
993	R07	168	0.029456964	0.001388077	1.15673E-13	1.860
994	R07	168	0.345906476	0.025001385	2.08345E-12	33.505
995	R07	168	0.028950548	0.001350288	1.12524E-13	1.810
996	R07	168	0.058870638	0.003582911	2.98576E-13	4.802
997	R07	168	0.082985242	0.005382331	4.48528E-13	7.213
998	R07	168	0.278136892	0.019944452	1.66204E-12	26.728
999	R07	168	0.047198765	0.002711961	2.25997E-13	3.634
1000	R07	168	0.065320359	0.004064186	3.38682E-13	5.447
1001	R07	168	0.046985276	0.002696031	2.24669E-13	3.613
1002	R07	168	0.056963998	0.003440638	2.8672E-13	4.611
1003	R07	168	0.057219253	0.003459685	2.88307E-13	4.636
1004	R07	168	0.139516449	0.009600662	8.00055E-13	12.866
1005	R07	168	0.219125683	0.015541064	1.29509E-12	20.827
1006	R07	168	0.063941989	0.003961333	3.30111E-13	5.309
1007	R07	168	0.044999997	0.00254789	2.12324E-13	3.415
1008	R07	168	0.035032427	0.001804115	1.50343E-13	2.418
1009	R07	168	0.365441352	0.026459068	2.20492E-12	35.459
1010	R07	168	0.168828095	0.011787883	9.82324E-13	15.797
1011	R07	168	0.283964598	0.020379312	1.69828E-12	27.311
1012	R07	168	0.071211408	0.004503773	3.75314E-13	6.036
1013	R07	168	0.253856824	0.018132685	1.51106E-12	24.300
1014	R07	168	0.172484568	0.012060727	1.00506E-12	16.163

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1015	R07	168	0.102620645	0.006847515	5.70626E-13	9.177
1016	R07	168	0.160781705	0.011187465	9.32289E-13	14.993
1017	R07	168	0.458310939	0.033388951	2.78241E-12	44.746
1018	R07	168	0.278653177	0.019982976	1.66525E-12	26.780
1019	R07	168	0.458005455	0.033366156	2.78051E-12	44.715
1020	R07	168	0.1698137	0.011861428	9.88452E-13	15.896
1021	R07	168	0.394210591	0.028605814	2.38382E-12	38.336
1022	R07	168	0.114745133	0.007752238	6.4602E-13	10.389
1023	R07	168	0.074169442	0.0047245	3.93708E-13	6.331
1024	R07	168	0.25231421	0.018017576	1.50146E-12	24.146
1025	R07	168	0.202000773	0.014263212	1.1886E-12	19.115
1026	R07	168	0.031692445	0.001554887	1.29574E-13	2.084
1027	R07	168	0.239271956	0.017044369	1.42036E-12	22.842
1028	R07	168	0.108377991	0.007277125	6.06427E-13	9.752
1029	R07	168	0.482645604	0.035204792	2.93373E-12	47.179
1030	R07	168	0.47896523	0.034930164	2.91085E-12	46.811
1031	R07	168	0.319837446	0.023056126	1.92134E-12	30.898
1032	R07	168	0.27553745	0.019750482	1.64587E-12	26.468
1033	R07	168	0.433623942	0.031546819	2.6289E-12	42.277
1034	R07	168	0.211640913	0.014982554	1.24855E-12	20.079
1035	R07	168	0.378689507	0.027447639	2.2873E-12	36.783
1036	R07	168	0.260974408	0.018663795	1.55532E-12	25.012
1037	R07	168	0.566924449	0.041493638	3.4578E-12	55.607
1038	R07	168	0.601261986	0.044055888	3.67132E-12	59.041
1039	R07	168	0.464569355	0.033855951	2.82133E-12	45.371
1040	R07	168	0.034882122	0.001792899	1.49408E-13	2.403
1041	R07	168	0.235328274	0.016750093	1.39584E-12	22.447
1042	R07	168	0.060286226	0.003688541	3.07378E-13	4.943
1043	R07	168	0.556223693	0.040695153	3.39126E-12	54.537
1044	R07	168	0.154175052	0.01069448	8.91207E-13	14.332

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1045	R07	168	0.560518809	0.041015652	3.41797E-12	54.966
1046	R07	168	0.132687225	0.009091068	7.57589E-13	12.183
1047	R07	168	0.518193713	0.037857374	3.15478E-12	50.734
1048	R07	168	0.020481984	0.000718368	5.9864E-14	0.963
1049	R07	168	0.322741969	0.023272861	1.93941E-12	31.189
1050	R07	168	0.580717873	0.042522896	3.54357E-12	56.986
1051	R07	168	0.440994095	0.032096776	2.67473E-12	43.014
1052	R07	168	0.184781034	0.012978283	1.08152E-12	17.393
1053	R07	168	0.220923515	0.015675217	1.30627E-12	21.007
1054	R07	168	0.492190992	0.035917064	2.99309E-12	48.134
1055	R07	168	0.347530363	0.025122558	2.09355E-12	33.668
1056	R07	168	0.511747618	0.03737637	3.1147E-12	50.089
1057	R07	168	0.586642132	0.042964962	3.58041E-12	57.579
1058	R07	168	0.506162715	0.036959627	3.07997E-12	49.531
1059	R07	168	0.231767833	0.016484415	1.3737E-12	22.091
1060	R07	168	0.610864065	0.044772391	3.73103E-12	60.001
1061	R07	168	0.605961806	0.044406586	3.70055E-12	59.511
1062	R07	168	0.598764687	0.043869541	3.6558E-12	58.791
1063	R07	168	0.354468687	0.025640293	2.13669E-12	34.361
1064	R07	168	0.408315933	0.029658348	2.47153E-12	39.746
1065	R07	168	0.360247735	0.026071522	2.17263E-12	34.939
1066	R07	168	0.467174281	0.034050329	2.83753E-12	45.632
1067	R07	168	0.569528368	0.041687941	3.474E-12	55.867
1068	R07	168	0.524358438	0.038317383	3.19312E-12	51.350
1069	R07	168	0.364653995	0.026400315	2.20003E-12	35.380
1070	R07	168	0.588454454	0.043100196	3.59168E-12	57.760
1071	R07	168	0.176708646	0.012375925	1.03133E-12	16.585
1072	R07	168	0.27820322	0.019949401	1.66245E-12	26.735
1073	R07	168	0.572373219	0.041900222	3.49169E-12	56.152
1074	R07	168	0.522613477	0.038187175	3.18226E-12	51.176

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1075	R07	168	0.600796316	0.04402114	3.66843E-12	58.994
1076	R07	168	0.535882772	0.039177323	3.26478E-12	52.503
1077	R07	168	0.576350022	0.04219697	3.51641E-12	56.550
1078	R07	168	0.545841988	0.039920475	3.32671E-12	53.499
1079	R07	168	0.55039288	0.04026006	3.35501E-12	53.954
1080	R07	168	0.601924423	0.044105319	3.67544E-12	59.107
1081	R07	168	0.606704613	0.044462014	3.70517E-12	59.585
1082	R07	168	0.53068962	0.038789813	3.23248E-12	51.983
1083	R07	168	0.06570063	0.004092561	3.41047E-13	5.485
1084	R07	168	0.429829941	0.031263713	2.60531E-12	41.898
1085	R07	168	0.501310316	0.036597543	3.0498E-12	49.046
1086	R07	168	0.227259785	0.016148027	1.34567E-12	21.640
1087	R07	168	0.530839356	0.038800986	3.23342E-12	51.998
1088	R07	168	0.140562748	0.009678736	8.06561E-13	12.971
1089	R07	168	0.048259251	0.002791094	2.32591E-13	3.740
1090	R07	168	0.475698891	0.034686431	2.89054E-12	46.484
1091	R07	168	0.040482684	0.002210811	1.84234E-13	2.963
1092	R07	168	0.423137596	0.030764333	2.56369E-12	41.228
1093	R07	168	0.238663797	0.016998988	1.41658E-12	22.781
1094	R07	168	0.172120484	0.012033559	1.0028E-12	16.127
1095	R07	168	0.317403294	0.022874491	1.90621E-12	30.655
1096	R07	168	0.296909845	0.02134528	1.77877E-12	28.605
1097	R07	168	0.108827039	0.007310633	6.09219E-13	9.797
1098	R07	168	0.17232989	0.012049185	1.0041E-12	16.147
1099	R07	168	0.492710012	0.035955793	2.99632E-12	48.186
1100	R07	168	0.035669131	0.001851626	1.54302E-13	2.481
1101	R07	168	0.076105343	0.004868956	4.05746E-13	6.525
1102	R07	168	0.128847157	0.008804524	7.3371E-13	11.799
1103	R07	168	0.165525535	0.011541447	9.61787E-13	15.467
1104	R07	168	0.044483807	0.002509373	2.09114E-13	3.363

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1105	R07	168	0.065210901	0.004056018	3.38002E-13	5.436
1106	R07	168	0.024223677	0.000997572	8.3131E-14	1.337
1107	R07	168	0.339987611	0.024559722	2.04664E-12	32.913
1108	R07	168	0.173322927	0.012123285	1.01027E-12	16.247
1109	R07	168	0.10260339	0.006846227	5.70519E-13	9.175
1110	R07	168	0.434979368	0.03164796	2.63733E-12	42.412
1111	R07	168	0.212618527	0.015055503	1.25463E-12	20.176
1112	R07	168	0.185592677	0.013038847	1.08657E-12	17.474
1113	R07	168	0.200225597	0.014130749	1.17756E-12	18.937
1114	R07	168	0.044180724	0.002486757	2.0723E-13	3.333
1115	R07	168	0.365085769	0.026432534	2.20271E-12	35.423
1116	R07	168	0.25666802	0.018342455	1.52854E-12	24.581
1117	R07	168	0.550849752	0.040294152	3.35785E-12	53.999
1118	R07	168	0.031784848	0.001561782	1.30149E-13	2.093
1119	R07	168	0.054578776	0.003262654	2.71888E-13	4.372
1120	R07	168	0.272564096	0.019528612	1.62738E-12	26.171
1121	R07	168	0.424828201	0.030890485	2.57421E-12	41.397
1122	R07	168	0.472166854	0.034422872	2.86857E-12	46.131
1123	R07	168	0.052815083	0.003131048	2.60921E-13	4.196
1124	R07	168	0.024950273	0.00105179	8.76491E-14	1.410
1125	R07	168	0.034863369	0.0017915	1.49292E-13	2.401
1126	R07	168	0.178768608	0.012529639	1.04414E-12	16.791
1127	R07	168	0.191233941	0.013459796	1.12165E-12	18.038
1128	R07	168	0.421918373	0.030673355	2.55611E-12	41.106
1129	R07	168	0.103484682	0.006911989	5.75999E-13	9.263
1130	R07	168	0.452958212	0.032989533	2.74913E-12	44.210
1131	R07	168	0.414281564	0.0301035	2.50863E-12	40.343
1132	R07	168	0.207987775	0.014709959	1.22583E-12	19.713
1133	R07	168	0.293196254	0.021068174	1.75568E-12	28.234
1134	R07	168	0.066021626	0.004116514	3.43043E-13	5.517

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1135	R07	168	0.665952141	0.048883036	4.07359E-12	65.510
1136	R07	168	0.446744021	0.032525833	2.71049E-12	43.589
1137	R07	168	0.309093205	0.022254396	1.85453E-12	29.824
1138	R07	168	0.640740847	0.047001781	3.91682E-12	62.989
1139	R07	168	0.217547314	0.015423287	1.28527E-12	20.669
1140	R07	168	0.035091548	0.001808527	1.50711E-13	2.424
1141	R07	168	0.181846193	0.012759287	1.06327E-12	17.099
1142	R07	168	0.302178649	0.021738436	1.81154E-12	29.132
1143	R07	168	0.572938103	0.041942374	3.4952E-12	56.208
1144	R07	168	0.048755544	0.002828127	2.35677E-13	3.790
1145	R07	168	0.329026322	0.023741796	1.97848E-12	31.817
1146	R07	168	0.189252328	0.013311929	1.10933E-12	17.840
1147	R07	168	0.097838837	0.006490699	5.40892E-13	8.698
1148	R07	168	0.085077348	0.005538443	4.61537E-13	7.422
1149	R07	168	0.092234291	0.00607249	5.06041E-13	8.138
1150	R07	168	0.401578207	0.029155582	2.42963E-12	39.072
1151	R07	168	0.513292774	0.037491669	3.12431E-12	50.244
1152	R07	168	0.052062577	0.003074897	2.56241E-13	4.121
1153	R07	168	0.255059987	0.018222464	1.51854E-12	24.421
1154	R07	168	0.17406747	0.012178842	1.0149E-12	16.321
1155	R07	168	0.097871634	0.006493146	5.41096E-13	8.702
1156	R07	168	0.4975189	0.03631463	3.02622E-12	48.666
1157	R07	168	0.062547874	0.003857304	3.21442E-13	5.169
1158	R07	168	0.102409656	0.006831771	5.69314E-13	9.155
1159	R07	168	0.161500326	0.011241088	9.36757E-13	15.065
1160	R07	168	0.180489463	0.012658048	1.05484E-12	16.963
1161	R07	168	0.082487588	0.005345196	4.45433E-13	7.163
1162	R07	168	0.094410876	0.006234906	5.19575E-13	8.356
1163	R07	168	0.092135337	0.006065106	5.05426E-13	8.128
1164	R07	168	0.035267107	0.001821627	1.51802E-13	2.441

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1165	R07	168	0.143764896	0.009917679	8.26473E-13	13.291
1166	R07	168	0.101922207	0.006795398	5.66283E-13	9.107
1167	R07	168	0.046714773	0.002675846	2.22987E-13	3.586
1168	R07	168	0.027019584	0.001206201	1.00517E-13	1.616
1169	R07	168	0.114157916	0.007708421	6.42368E-13	10.330
1170	R07	168	0.074647878	0.004760201	3.96683E-13	6.379
1171	R07	168	0.143582033	0.009904034	8.25336E-13	13.273
1172	R07	168	0.254440057	0.018176205	1.51468E-12	24.359
1173	R07	168	0.078502738	0.005047849	4.20654E-13	6.765
1174	R07	168	0.103778342	0.006933902	5.77825E-13	9.292
1175	R07	168	0.41828939	0.030402562	2.53355E-12	40.743
1176	R07	168	0.090720794	0.005959554	4.96629E-13	7.987
1177	R07	168	0.05996823	0.003664813	3.05401E-13	4.911
1178	R07	168	0.214199062	0.015173442	1.26445E-12	20.334
1179	R12	48	0.079467024	0.017919311	1.49328E-12	6.861
1180	R12	48	0.036653267	0.006737715	5.61476E-13	2.580
1181	R12	48	0.024941278	0.003678915	3.06576E-13	1.409
1182	R12	48	0.015170442	0.001127082	9.39235E-14	0.432
1183	R12	48	0.024619436	0.00359486	2.99572E-13	1.376
1184	R12	48	0.115221541	0.027257257	2.27144E-12	10.437
1185	R12	48	0.080818562	0.01827229	1.52269E-12	6.996
1186	R12	48	0.015302728	0.001161631	9.68026E-14	0.445
1187	R12	48	0.060368329	0.012931337	1.07761E-12	4.951
1188	R12	48	0.034276656	0.00611702	5.09752E-13	2.342
1189	R12	48	0.026778059	0.004158624	3.46552E-13	1.592
1190	R12	48	0.027582745	0.004368782	3.64065E-13	1.673
1191	R12	48	0.012964351	0.000550921	4.59101E-14	0.211
1192	R12	48	0.03344334	0.005899384	4.91615E-13	2.259
1193	R12	48	0.021523173	0.002786214	2.32185E-13	1.067
1194	R12	48	0.054901961	0.011503695	9.58641E-13	4.405

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1195	R12	48	0.028813841	0.004690306	3.90859E-13	1.796
1196	R12	48	0.022999519	0.003171789	2.64316E-13	1.214
1197	R12	48	0.013333331	0.000647287	5.39406E-14	0.248
1198	R12	48	0.024250157	0.003498416	2.91535E-13	1.340
1199	R12	48	0.014267179	0.000891179	7.42649E-14	0.341
1200	R12	48	0.023473108	0.003295475	2.74623E-13	1.262
1201	R12	48	0.026286558	0.004030259	3.35855E-13	1.543
1202	R12	48	0.020743738	0.002582651	2.15221E-13	0.989
1203	R12	48	0.017649904	0.001774639	1.47887E-13	0.680
1204	R12	48	0.041146214	0.00791113	6.59261E-13	3.029
1205	R12	48	0.02006018	0.002404127	2.00344E-13	0.921
1206	R12	48	0.01489362	0.001054785	8.78988E-14	0.404
1207	R12	48	0.018338731	0.001954539	1.62878E-13	0.748
1208	R12	48	0.026330226	0.004041664	3.36805E-13	1.548
1209	R12	48	0.013888891	0.000792382	6.60318E-14	0.303
1210	R12	48	0.012605042	0.000457081	3.80901E-14	0.175
1211	R12	48	0.016977931	0.001599141	1.33262E-13	0.612
1212	R12	48	0.015656906	0.001254131	1.04511E-13	0.480
1213	R12	48	0.026172671	0.004000516	3.33376E-13	1.532
1214	R12	48	0.015377449	0.001181146	9.84288E-14	0.452
1215	R12	48	0.02645318	0.004073776	3.39481E-13	1.560
1216	R12	48	0.023906179	0.00340858	2.84048E-13	1.305
1217	R12	48	0.009561305	-0.000337846	-2.81538E-14	-0.129
1218	R12	48	0.064935061	0.014124023	1.177E-12	5.408
1219	R12	48	0.012485482	0.000425856	3.5488E-14	0.163
1220	R12	48	0.012816406	0.000512283	4.26902E-14	0.196
1221	R12	48	0.008832807	-0.000528107	-4.40089E-14	-0.202
1222	R12	48	0.033560093	0.005929876	4.94156E-13	2.271
1223	R12	48	0.013898541	0.000794902	6.62418E-14	0.304
1224	R12	48	0.059259256	0.012641682	1.05347E-12	4.840

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1225	R12	48	0.011565469	0.000185578	1.54648E-14	0.071
1226	R12	48	0.05459771	0.011424234	9.5202E-13	4.374
1227	R12	48	0.010086455	-0.000200694	-1.67245E-14	-0.077
1228	R12	48	0.009068427	-0.00046657	-3.88809E-14	-0.179
1229	R12	48	0.017054265	0.001619077	1.34923E-13	0.620
1230	R12	48	0.013959982	0.000810949	6.75791E-14	0.311
1231	R12	48	0.007905138	-0.000770385	-6.41987E-14	-0.295
1232	R12	48	0.019428571	0.002239171	1.86598E-13	0.857
1233	R12	120	0.226300821	0.022507057	1.87559E-12	21.545
1234	R12	120	0.504850516	0.051606396	4.30053E-12	49.400
1235	R12	120	0.522959868	0.053498231	4.45819E-12	51.210
1236	R12	120	0.47655714	0.048650663	4.05422E-12	46.570
1237	R12	120	0.571713804	0.058591424	4.88262E-12	56.086
1238	R12	120	0.55853589	0.057214763	4.7679E-12	54.768
1239	R12	120	0.48228548	0.049249087	4.10409E-12	47.143
1240	R12	120	0.406734338	0.041356462	3.44637E-12	39.588
1241	R12	120	0.527170646	0.05393812	4.49484E-12	51.632
1242	R12	120	0.378985698	0.038457636	3.2048E-12	36.813
1243	R12	120	0.440442242	0.044877836	3.73982E-12	42.959
1244	R12	120	0.551748167	0.056505668	4.70881E-12	54.089
1245	R12	120	0.451133605	0.045994734	3.83289E-12	44.028
1246	R12	120	0.566539601	0.058050889	4.83757E-12	55.568
1247	R12	120	0.41028461	0.04172735	3.47728E-12	39.943
1248	R12	120	0.546262186	0.055932562	4.66105E-12	53.541
1249	R12	120	0.461321214	0.047059007	3.92158E-12	45.047
1250	R12	120	0.439387677	0.044767669	3.73064E-12	42.853
1251	R12	120	0.527977496	0.054022409	4.50187E-12	51.712
1252	R12	120	0.409076144	0.041601104	3.46676E-12	39.822
1253	R12	120	0.588036842	0.060296648	5.02472E-12	57.718
1254	R12	120	0.611462147	0.062743827	5.22865E-12	60.061

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1255	R12	120	0.525514551	0.053765112	4.48043E-12	51.466
1256	R12	120	0.551329809	0.056461963	4.70516E-12	54.047
1257	R12	120	0.459122053	0.046829266	3.90244E-12	44.827
1258	R12	120	0.281734054	0.028298018	2.35817E-12	27.088
1259	R12	120	0.426423894	0.043413377	3.61778E-12	41.557
1260	R12	120	0.615478098	0.063163362	5.26361E-12	60.462
1261	R12	120	0.486533298	0.049692845	4.14107E-12	47.568
1262	R12	120	0.506359547	0.05176404	4.31367E-12	49.550
1263	R12	120	0.592664367	0.060780073	5.06501E-12	58.181
1264	R12	120	0.542235788	0.055511935	4.62599E-12	53.138
1265	R12	120	0.336447652	0.034013801	2.83448E-12	32.559
1266	R12	120	0.530073924	0.054241418	4.52012E-12	51.922
1267	R12	120	0.544926381	0.055793014	4.64942E-12	53.407
1268	R12	120	0.410100678	0.041708135	3.47568E-12	39.925
1269	R12	120	0.647556613	0.066514519	5.54288E-12	63.670
1270	R12	120	0.450418015	0.045919979	3.82666E-12	43.956
1271	R12	120	0.505145863	0.05163725	4.3031E-12	49.429
1272	R12	120	0.426598728	0.043431642	3.6193E-12	41.574
1273	R12	120	0.373484405	0.037882931	3.15691E-12	36.263
1274	R12	120	0.451853981	0.04606999	3.83917E-12	44.100
1275	R12	120	0.572184511	0.058640598	4.88672E-12	56.133
1276	R12	120	0.598144262	0.061352543	5.11271E-12	58.729
1277	R12	120	0.405557515	0.041233523	3.43613E-12	39.470
1278	R12	120	0.520723708	0.053264626	4.43872E-12	50.987
1279	R12	120	0.555512406	0.056898908	4.74158E-12	54.466
1280	R12	120	0.662270818	0.068051672	5.67097E-12	65.142
1281	R12	120	0.498181491	0.050909701	4.24248E-12	48.733
1282	R12	120	0.568169985	0.058221211	4.85177E-12	55.732
1283	R12	120	0.517428477	0.052920382	4.41003E-12	50.657
1284	R12	120	0.37888421	0.038447034	3.20392E-12	36.803

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1285	R12	120	0.41609653	0.042334505	3.52788E-12	40.524
1286	R12	120	0.523123817	0.053515359	4.45961E-12	51.227
1287	R12	120	0.479690965	0.048978045	4.0815E-12	46.884
1288	R12	120	0.560906018	0.057462364	4.78853E-12	55.005
1289	R12	120	0.469026657	0.047863974	3.98866E-12	45.817
1290	R12	120	0.458404094	0.046754263	3.89619E-12	44.755
1291	R12	120	0.487790284	0.049824159	4.15201E-12	47.694
1292	R12	120	0.446980565	0.045560877	3.79674E-12	43.613
1293	R12	120	0.530118698	0.054246095	4.52051E-12	51.926
1294	R12	120	0.588366956	0.060331134	5.02759E-12	57.751
1295	R12	120	0.490349108	0.050091473	4.17429E-12	47.949
1296	R12	120	0.543431129	0.055636809	4.6364E-12	53.258
1297	R12	120	0.572069881	0.058628622	4.88572E-12	56.121
1298	R12	120	0.531930339	0.054435352	4.53628E-12	52.108
1299	R12	120	0.472377174	0.048213993	4.01783E-12	46.152
1300	R12	120	0.502669031	0.051378502	4.28154E-12	49.181
1301	R12	120	0.4529994	0.046189649	3.84914E-12	44.214
1302	R12	120	0.55096408	0.056423756	4.70198E-12	54.011
1303	R12	120	0.517921558	0.052971893	4.41432E-12	50.707
1304	R12	120	0.411866311	0.041892586	3.49105E-12	40.101
1305	R12	120	0.512492868	0.052404772	4.36706E-12	50.164
1306	R12	120	0.419695291	0.042710458	3.5592E-12	40.884
1307	R12	120	0.530331498	0.054268326	4.52236E-12	51.948
1308	R12	120	0.419469024	0.042686821	3.55724E-12	40.861
1309	R12	120	0.306164613	0.030850213	2.57085E-12	29.531
1310	R12	120	0.518365971	0.053018319	4.41819E-12	50.751
1311	R12	120	0.456136402	0.046517363	3.87645E-12	44.528
1312	R12	120	0.49879869	0.050974178	4.24785E-12	48.794
1313	R12	120	0.456302461	0.046534711	3.87789E-12	44.545
1314	R12	120	0.385074966	0.039093766	3.25781E-12	37.422

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1315	R12	120	0.53858358	0.055130398	4.5942E-12	52.773
1316	R12	120	0.449836634	0.045859243	3.8216E-12	43.898
1317	R12	120	0.603277782	0.061888828	5.1574E-12	59.242
1318	R12	120	0.489911269	0.050045733	4.17048E-12	47.906
1319	R12	120	0.383696923	0.038949805	3.24582E-12	37.284
1320	R12	120	0.547046145	0.05601446	4.66787E-12	53.619
1321	R12	120	0.517272033	0.052904038	4.40867E-12	50.642
1322	R12	120	0.544435149	0.055741696	4.64514E-12	53.358
1323	R12	120	0.577204892	0.059165063	4.93042E-12	56.635
1324	R12	120	0.511189969	0.052268661	4.35572E-12	50.034
1325	R12	120	0.505696362	0.051694759	4.3079E-12	49.484
1326	R12	120	0.51762719	0.052941141	4.41176E-12	50.677
1327	R12	120	0.483022048	0.049326034	4.1105E-12	47.217
1328	R12	120	0.555032142	0.056848736	4.73739E-12	54.418
1329	R12	120	0.504879943	0.05160947	4.30079E-12	49.403
1330	R12	120	0.473389458	0.048319744	4.02665E-12	46.253
1331	R12	120	0.467231468	0.047676435	3.97304E-12	45.638
1332	R12	120	0.472256659	0.048201403	4.01678E-12	46.140
1333	R12	120	0.470291006	0.047996057	3.99967E-12	45.944
1334	R12	120	0.489737584	0.050027588	4.16897E-12	47.888
1335	R12	120	0.458661953	0.046781201	3.89843E-12	44.781

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