

Cosmic muon arrival directions as a source of entropy

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1 Supplementary information

The following plots may be useful for a comprehensive understanding of our work. These are provided separately so as not to exceed the guideline limitations on the number of figures.

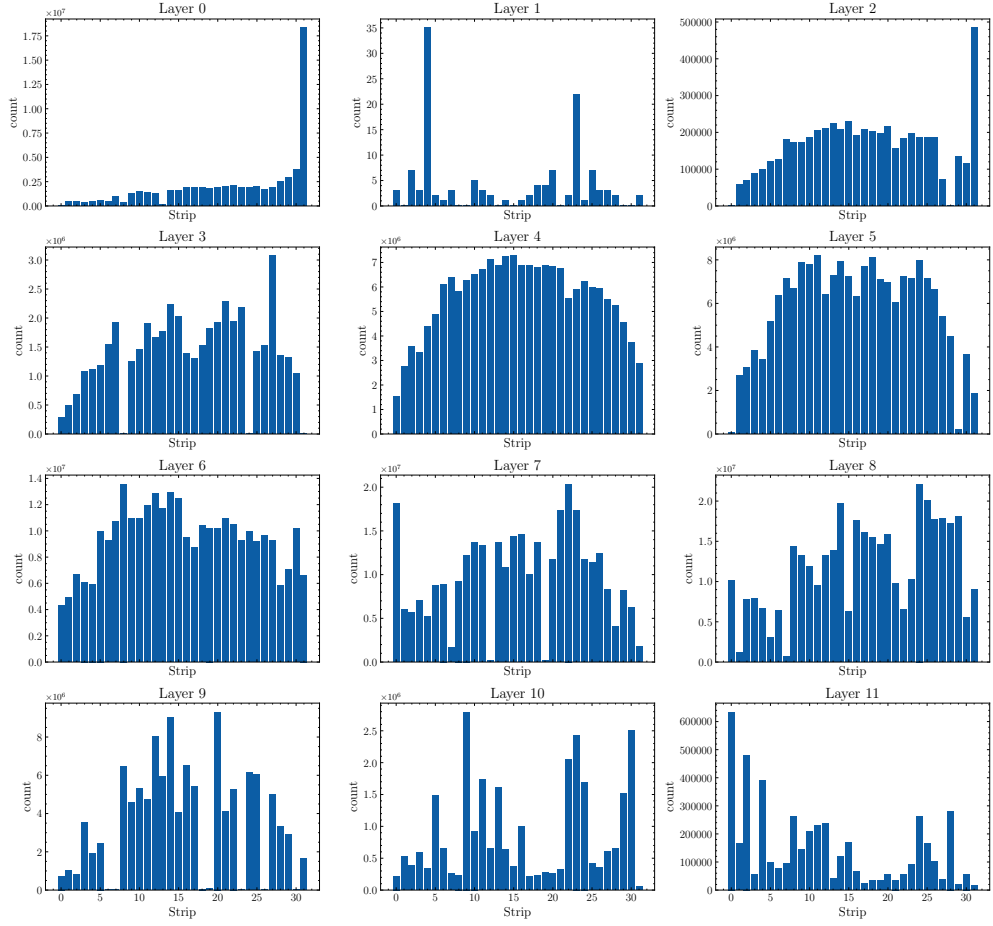


Fig. 1 The strip hit distribution(x-side) showing the frequency of counts in each layer. Layer 1 was a non-functional most of the times as indicated by the unusually low strip counts.

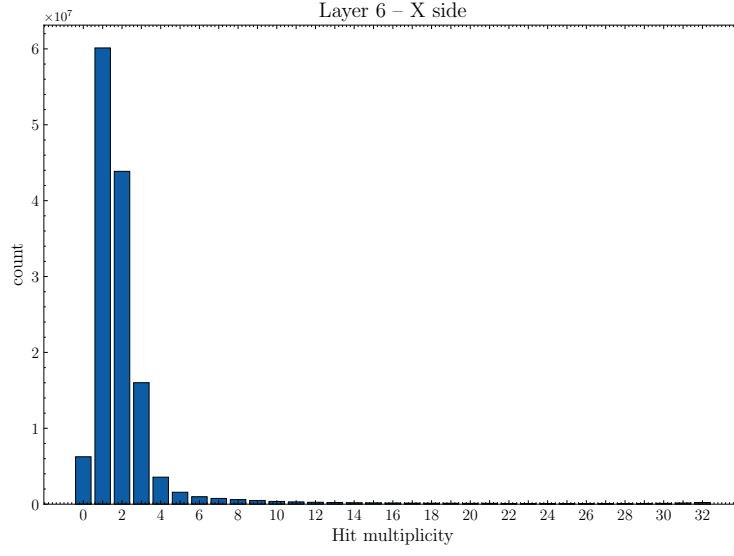


Fig. 2 The hit multiplicity for layer 6 shows that while single-hit frequency is more dominant, double-hit frequency is non-negligible.

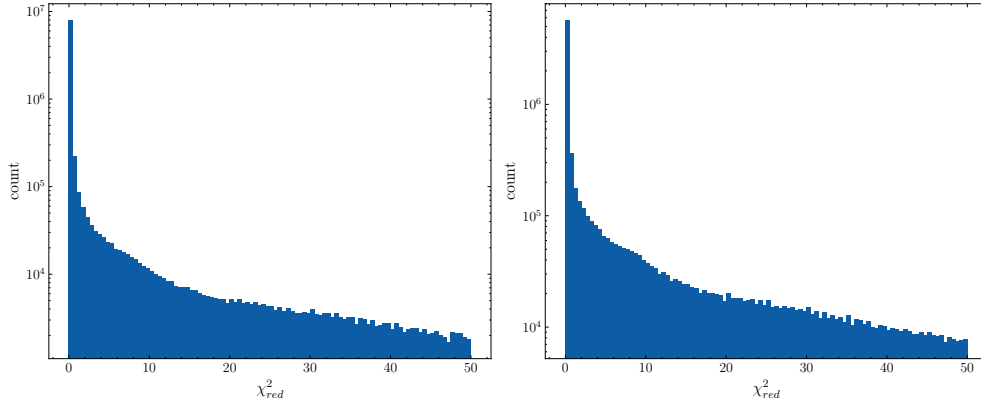


Fig. 3 The reduced χ^2 distribution for x-side fit (left) and the y-side fit (right). Only events with $\chi^2 < 1$ on both the projections were used in the analysis.

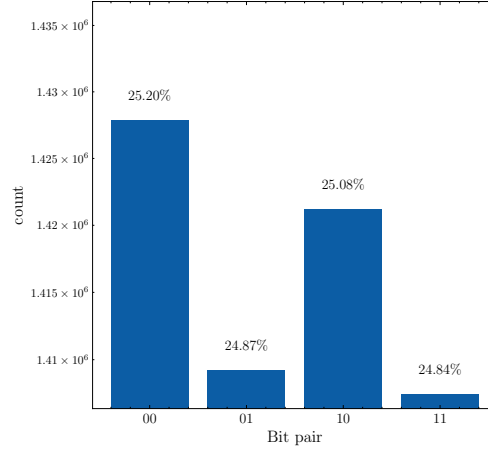


Fig. 4 Bit pair distribution based on the parity of the zenith and azimuth angles showing the slight non-uniformity amongst the possible pairs. The azimuth bit is represented by LSB.

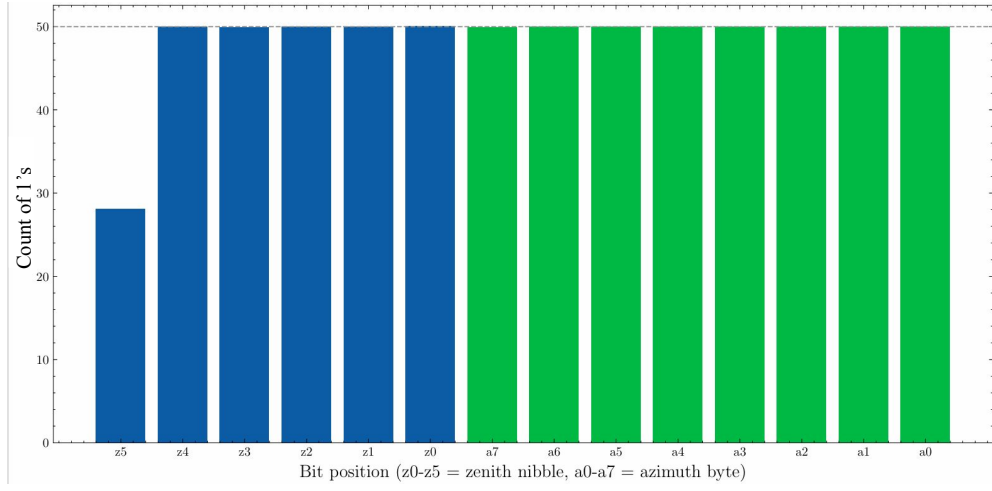


Fig. 5 The distribution of 1's in the concatenation style random number generation technique. The MSB distribution is significantly lower than the rest owing to the low counts at large angles.