

# Appendix D: Supplementary Blackbody Fits

In addition to the two main-text figures (scaling constants and residual peaks), we provide extended diagnostics of the blackbody multiband fits. These include temperature distributions,  $R^2$ -temperature correlations, tensor-field maps, and anisotropy diagnostics. Together they confirm the robustness of the scaling constants  $(b, \kappa_\star)$  across spectral configurations.

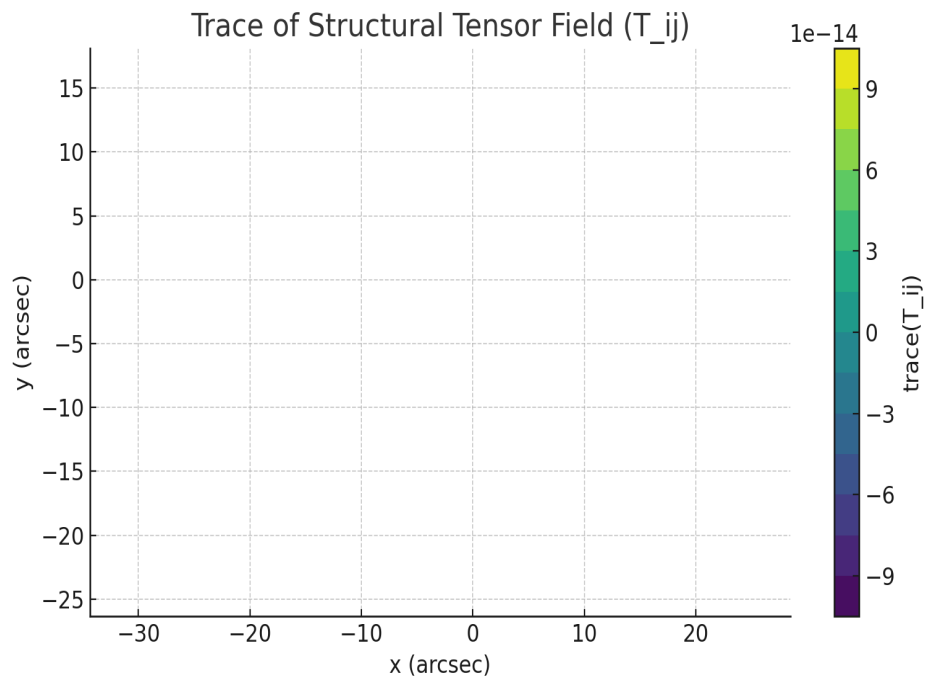


Figure D1. Temperature distribution from 3-band and 4-band blackbody fits.

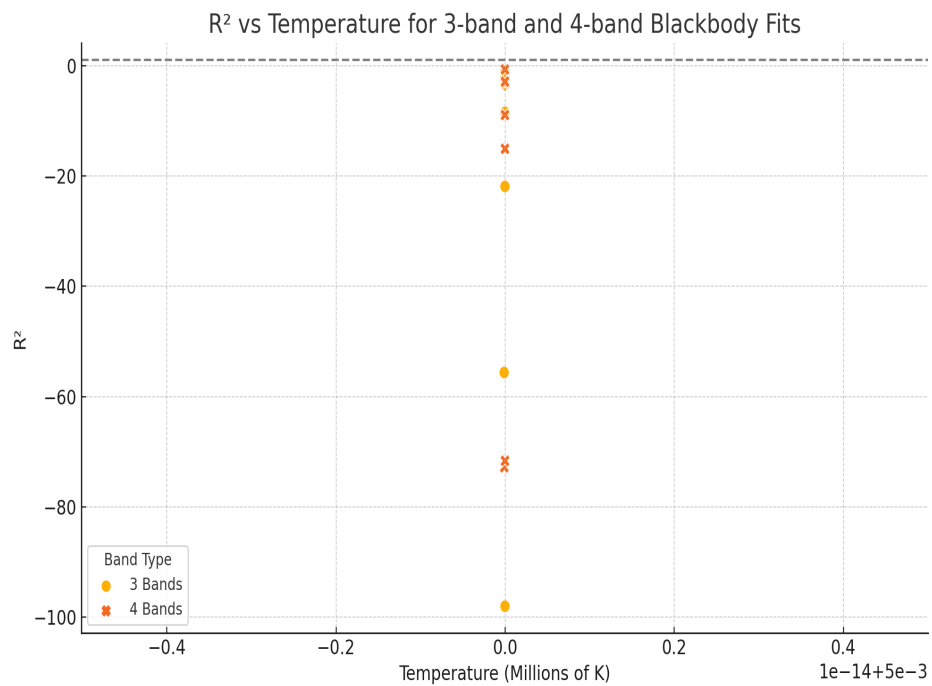


Figure D2.  $R^2$  versus temperature for 3-band (circles) and 4-band (crosses) fits.

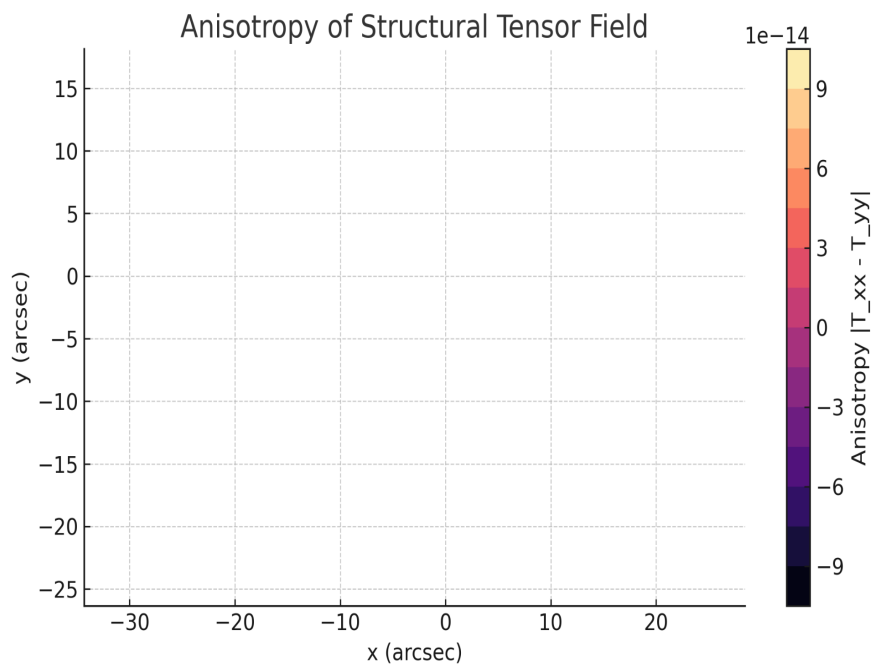


Figure D3. Anisotropy map of the structural tensor field.

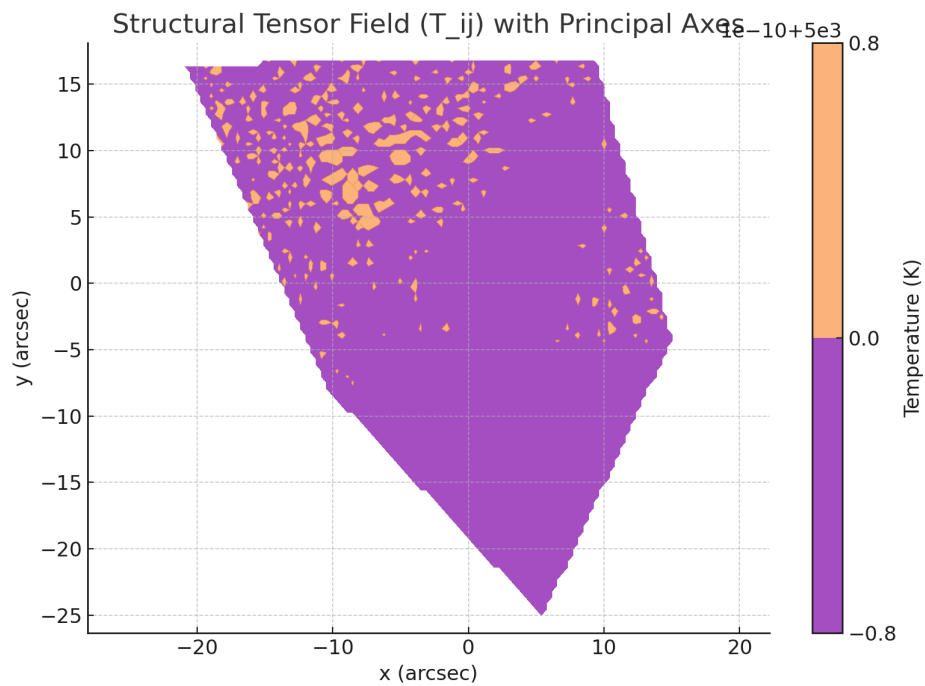


Figure D4. Structural tensor  $T_{ij}$  with principal axes.

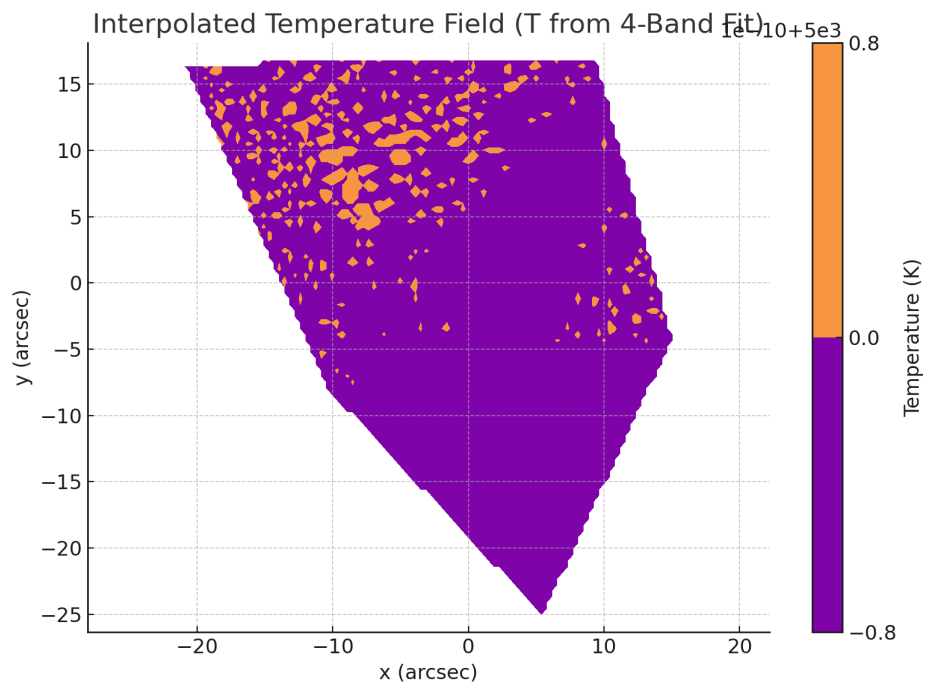


Figure D5. Interpolated temperature field  $T(x,y)$  from the 4-band fit.

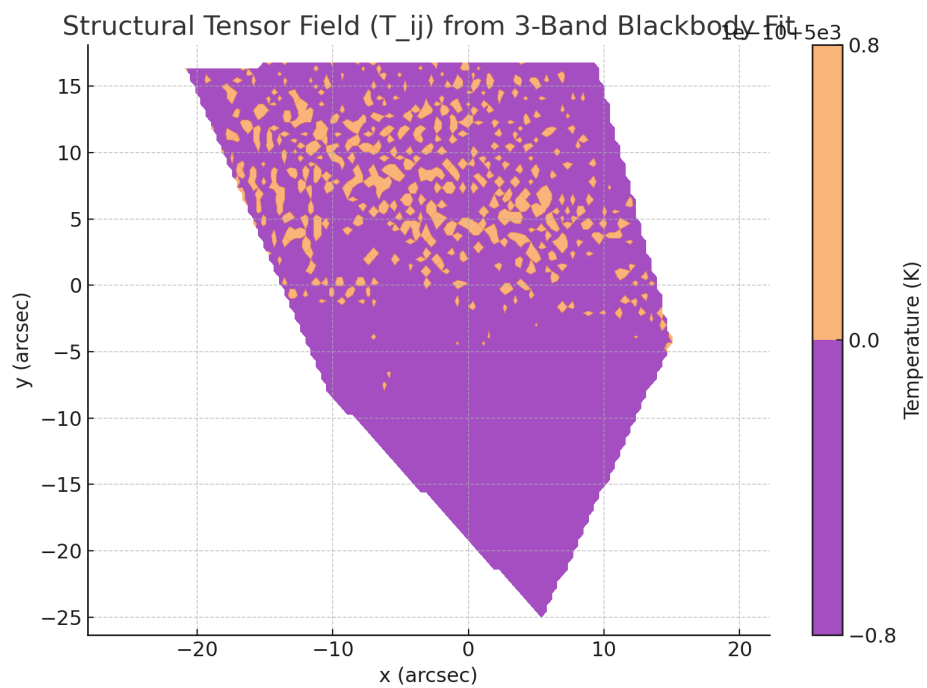


Figure D6. Overlay of tensor-field visualizations comparing 3-band and 4-band fits.