

CJ_FORNAX — FINAL FULL THEORY RERUN

Alfred McBride — BCR Author

Charles Anthony Hyatt Battiste — FUM/UM Author

USPTO Non-Provisional Application No. 19/640,364

This rerun incorporates the updated BXW completion note, lawful governance corrections, FungaB remainder law, witness-side mapping, admissibility constraints, and the newly supplied per-layer FITS / pixel-map support packages.

| Metric | Value |
|-------------------------|-----------------------|
| Observed mean kappa | 0.14492528712296754 |
| Prediction mean | 0.02676380522070556 |
| Residual mean | 0.11816148190902943 |
| corr(observed,residual) | 0.9758322247477835 |
| Closure error | 5.960464477539063e-08 |

Closed: corrected v2 baryon + K_act predictor, Funga-B remainder fraction law, witness-side residual mapping, global no-collapse result. Open: production-grade per-layer reconstruction and validation.

| Loaded Support Files |
|---|
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/ |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/BCR_UM_FUM_Production_Grade_Per_Layer_Pixel_Map_Derivation_2026-05-16.html |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/BCR_UM_FUM_Production_Grade_Per_Layer_Pixel_Map_Derivation_2026-05-16.md |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/BCR_UM_FUM_Production_Grade_Per_Layer_Pixel_Map_Derivation_2026-05-16.pdf |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_F_env_field.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_F_ML_inv_field.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_g_bar.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_kappa_conversion.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_kappa_emergence.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_kappa_nonlocal.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_kappa_observed_SLbaseline.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_kappa_realized.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_kappa_suppressed.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_K_act_internal.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_K_act_observed.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_lambda_field.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_LCORI_mask_LC.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_LCORI_mask_LG.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_LCORI_mask_LT.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_per_layer_summary.txt |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_sigma_baryon_proxy_v2.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_Sigma_FungaB_inferred.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_sigma_gas_chandra_v2.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_sigma_stars_v2.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/bullet_Umoja_kernel.fits |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/COVER_NOTE_PER_LAYER_FITS_2026-05-16.html |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/COVER_NOTE_PER_LAYER_FITS_2026-05-16.md |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/COVER_NOTE_PER_LAYER_FITS_2026-05-16.pdf |
| UM_FUM_Per_Layer_FITS_Maps_For_Alfred_McBride_2026-05-16/produce_per_layer_fits.py |
| BX_W_FiveLayer_Support_Package_2026-05-16/ |