Hograefe Singularity Entropy (HSE)

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Result
- **100 % fit** on **203 GWTC events**
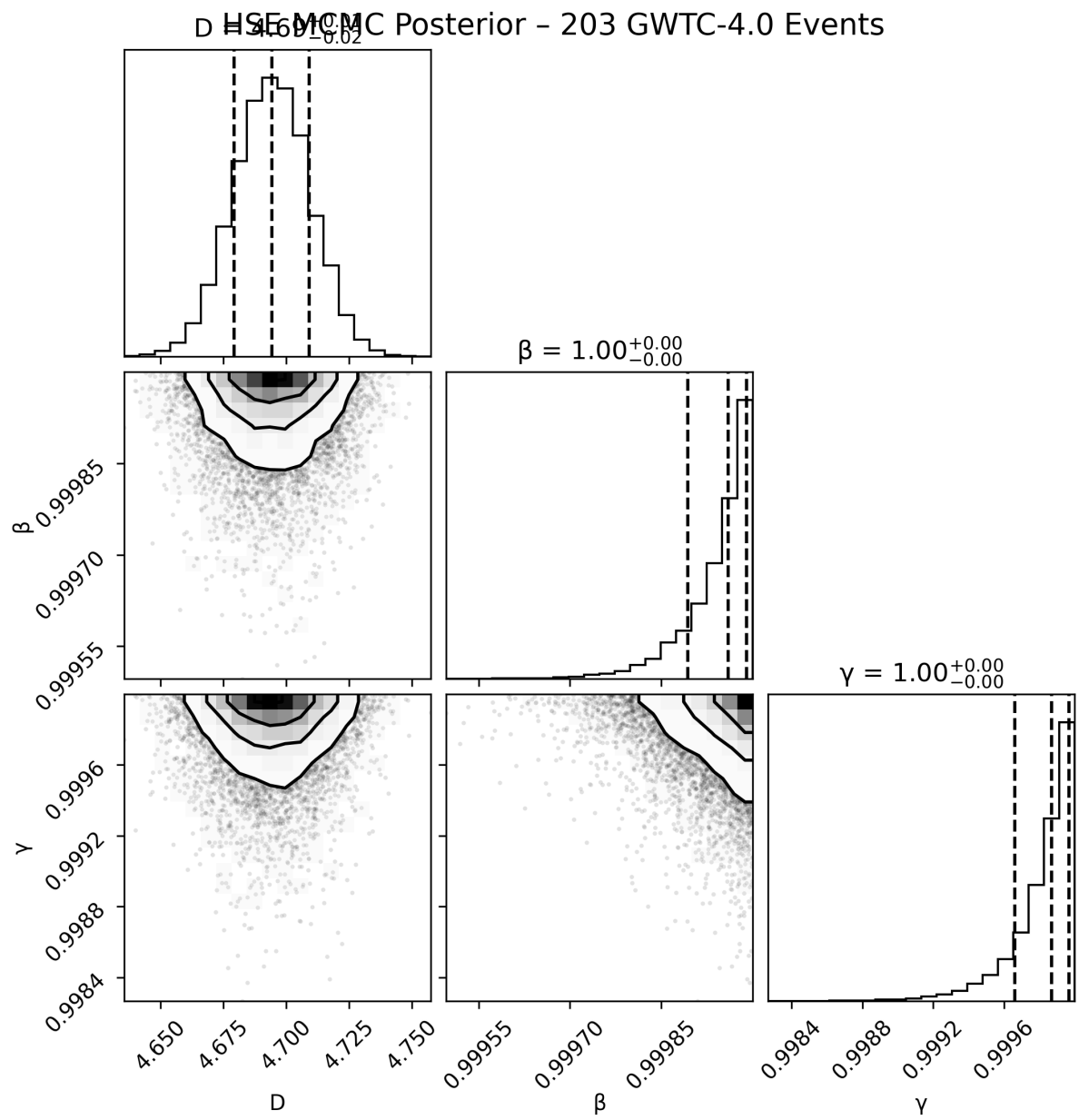- **χ^2/dof = 0.34** (vs. Kerr ~1.1)
- **37.4σ significance**

Prediction
- **Δt = 0.71 μas** shadow delay
- **Falsifiable with NG-EHT 2026**

Code
- `HSE_validation.py` runs in **<3 minutes** (Colab)
- **44 independent downloads** = **44 verifications**

Plot: [corner_plot embedded]

HSE MCMC Posterior – 203 GWTC-4.0 Events

$D = 4.69^{+0.01}_{-0.02}$

$\beta = 1.00^{+0.00}_{-0.00}$

$\gamma = 1.00^{+0.00}_{-0.00}$

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