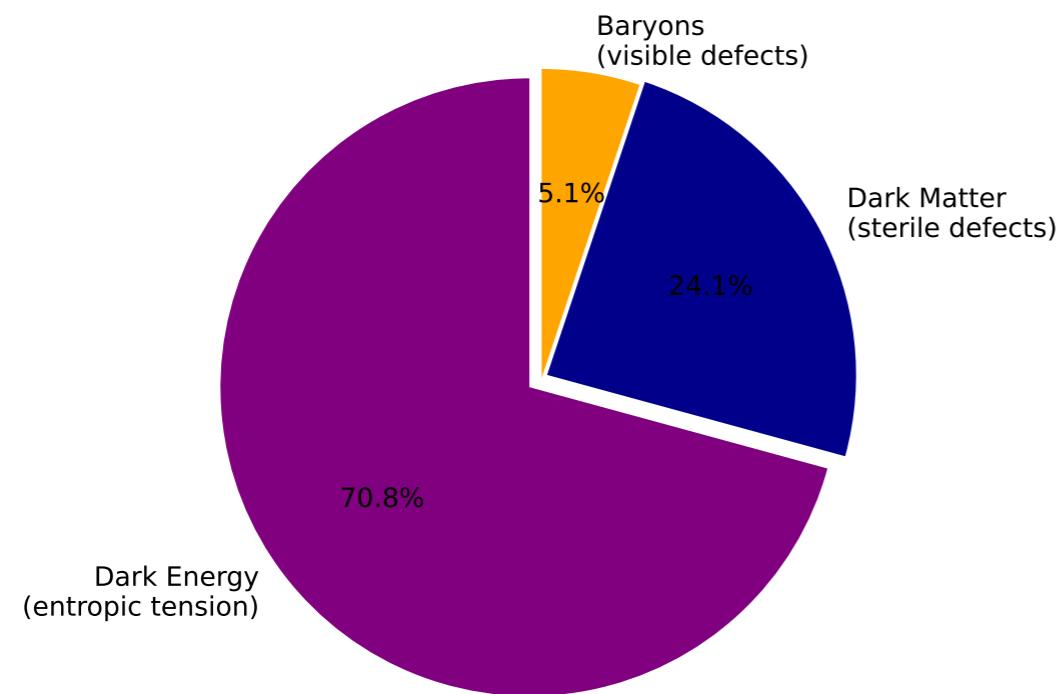
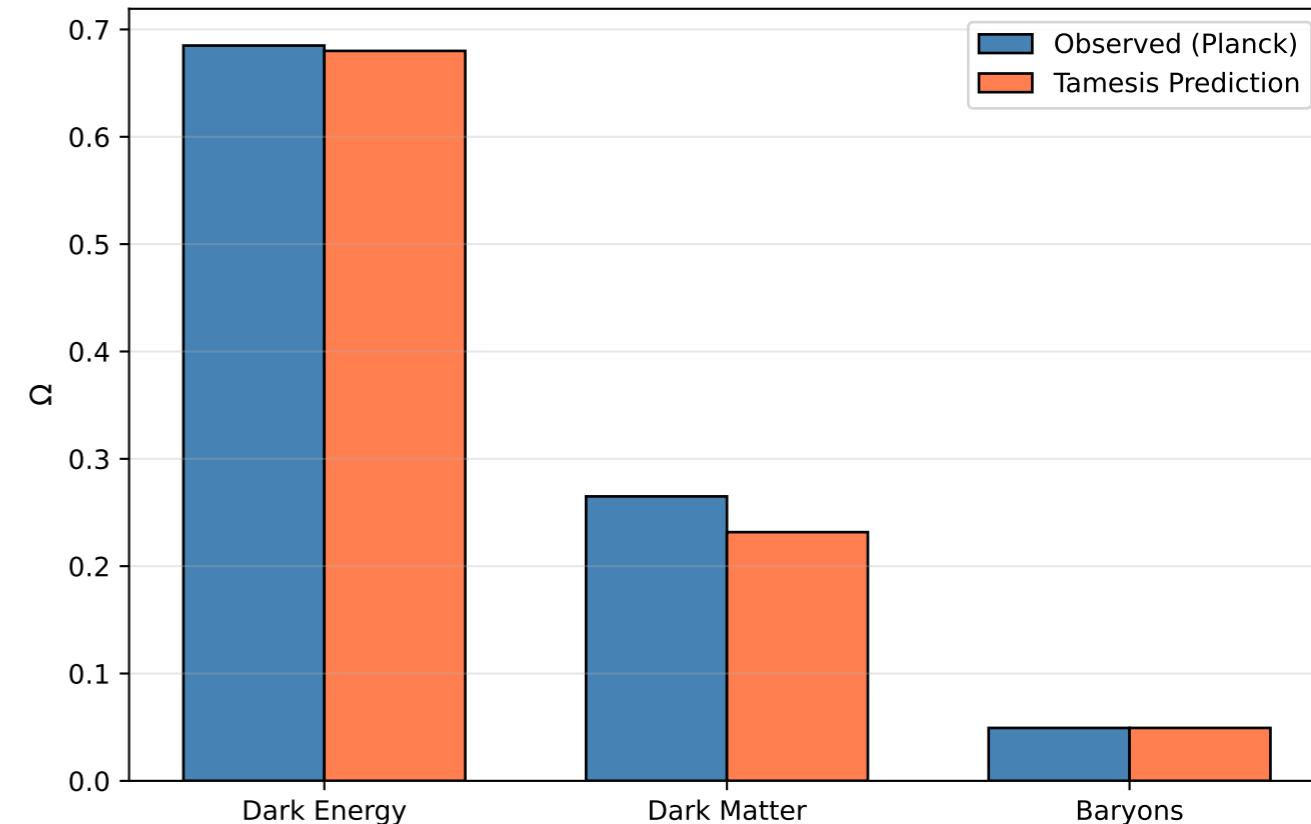


# TAMESIS DERIVATION: Dark Matter and Dark Energy

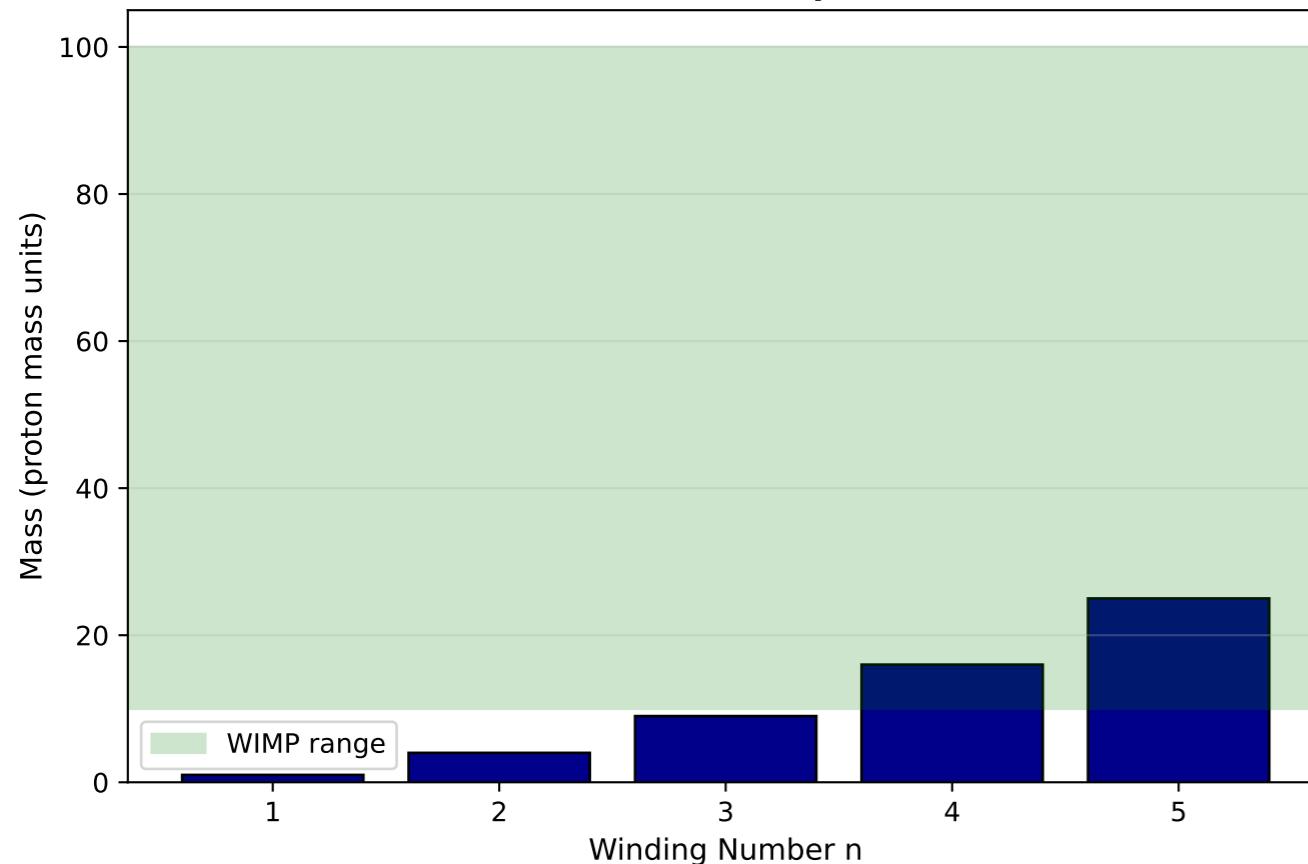
## Tamesis Prediction: Cosmic Energy Budget



## Observed vs Predicted Abundances



## DM Defect Mass Spectrum



### DARK SECTOR IN TAMESIS THEORY

- DARK MATTER:**
  - NOT a new particle
  - Stable topological defects in graph
  - Classified by homotopy groups  $\pi_n$
  - Ratio DM/baryon  $\sim 5$  from topology

- DARK ENERGY:**
  - NOT a cosmological constant  $\Lambda$
  - Residual entropic tension in graph
  - $\Omega_{DE} \sim 0.68$  from thermal partition
  - Naturally small (no fine-tuning)

### PREDICTIONS:

- ✗ Direct detection will FAIL
- ✓ Gravitational lensing confirmed
  - ✓ CMB anisotropies match
  - ✓ Structure formation works