QGI Electroweak Slope: Prediction and Residuals

Electroweak Slope Correlation

- QGI Prediction slope = 0.003522
- ★ PDG 2024 (M_Z)
- 1σ uncertainty
- FCC-ee projection (2040)

$\sin^2\theta_W$ vs α_em^{-1}

Residual Analysis

- QGI prediction
- Experimental uncertainty

Residual ($\sin^2\theta_W$) vs α_em^{-1}