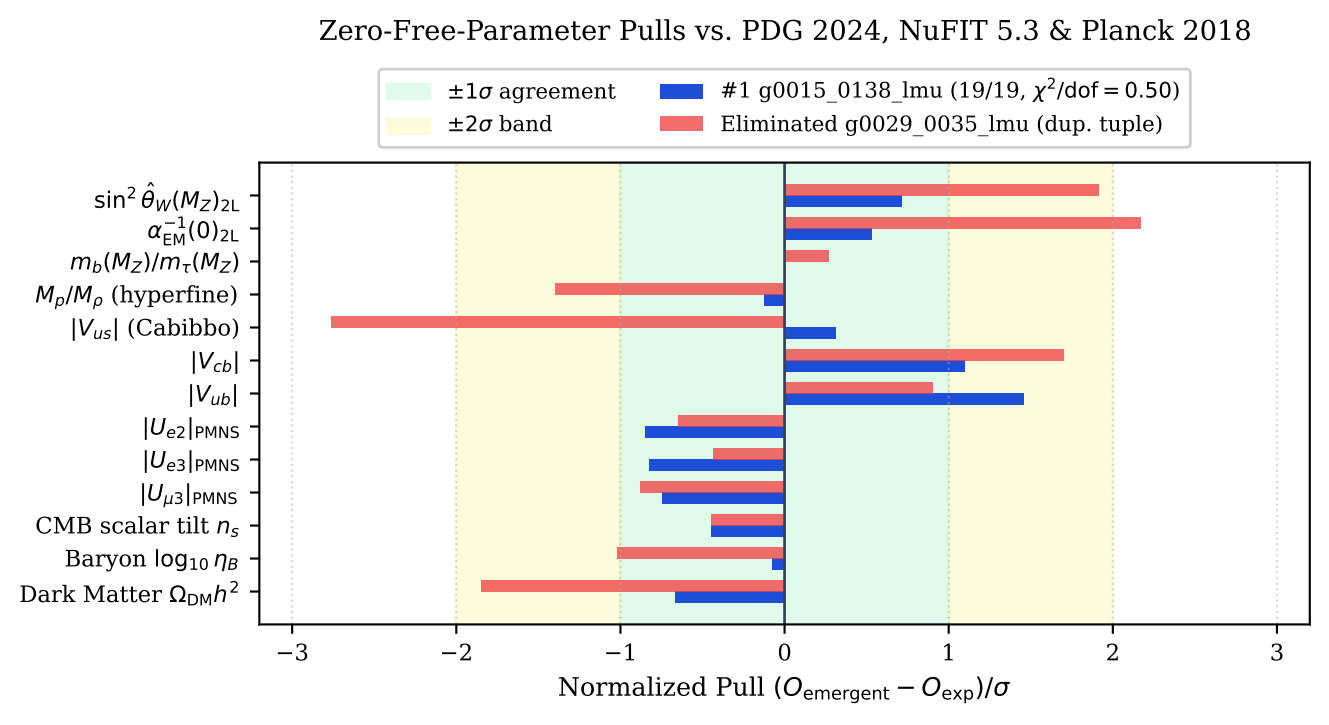
Zero-Free-Parameter Pulls vs. PDG 2024, NuFIT 5.3 & Planck 2018
±1σ agreement
±2σ band
#1 g0015_0138_lmu (19/19, χ²/dof = 0.50)
Eliminated g0029_0035_lmu (dup. tuple)
sin² θ̂_W(M_Z)_2L
α_EM^-1(0)_2L
m_b(M_Z)/m_τ(M_Z)
M_p/M_ρ (hyperfine)
|V_us| (Cabibbo)
|V_cb|
|V_ub|
|U_e2|_PMNS
|U_e3|_PMNS
|U_μ3|_PMNS
CMB scalar tilt n_s
Baryon log10 η_B
Dark Matter Ω_DM h²
−3
−2
−1
0
1
2
3
Normalized Pull (O_emergent − O_exp)/σ