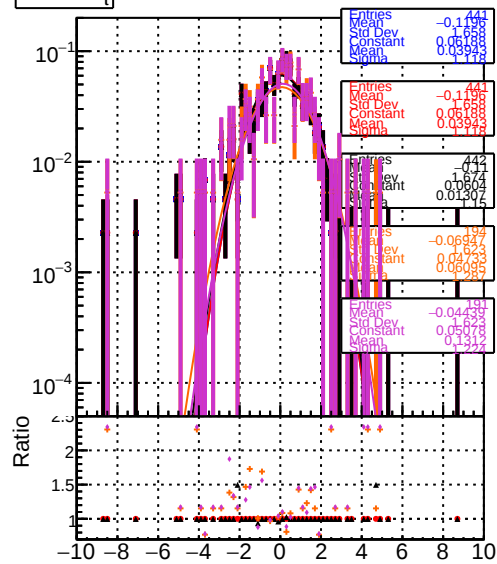
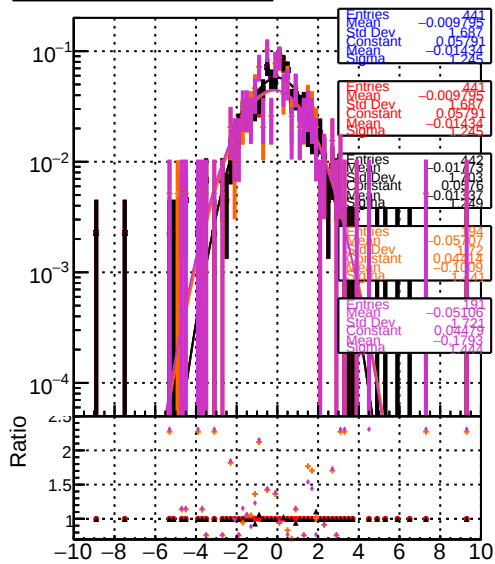
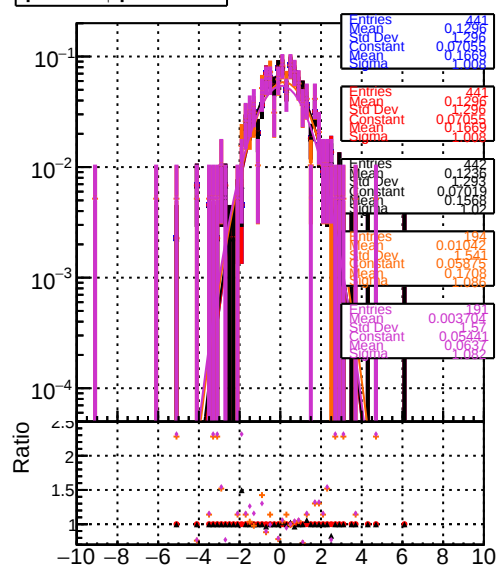
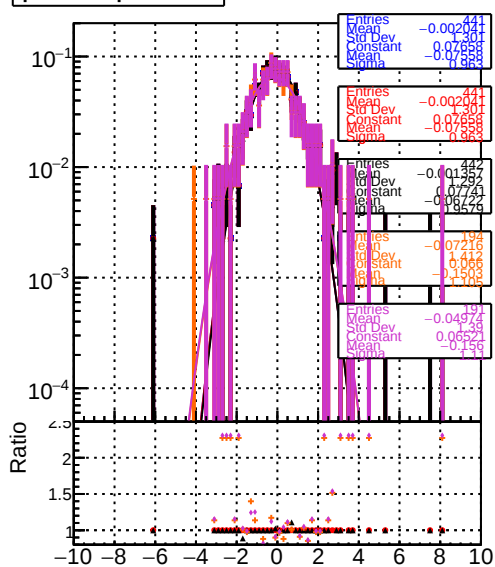


pull of p_t 

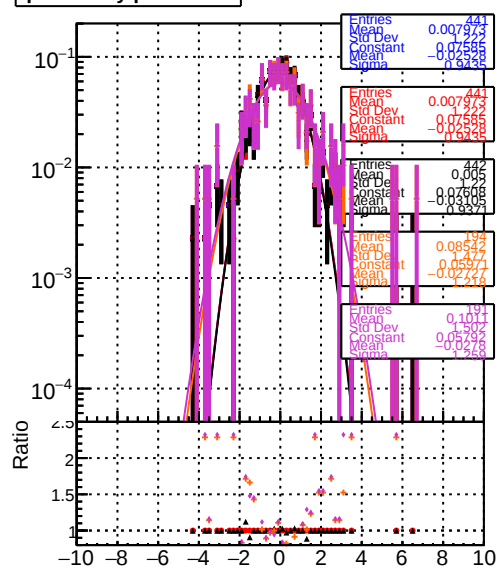
pull of qoverp parameter



$\square$ DOM original, $\square$ vector 1000eV, $\square$ 1000eV, $\square$ 4000eV

pull of ϕ parameterpull of θ parameter

pull of dxy parameter



pull of dz parameter

