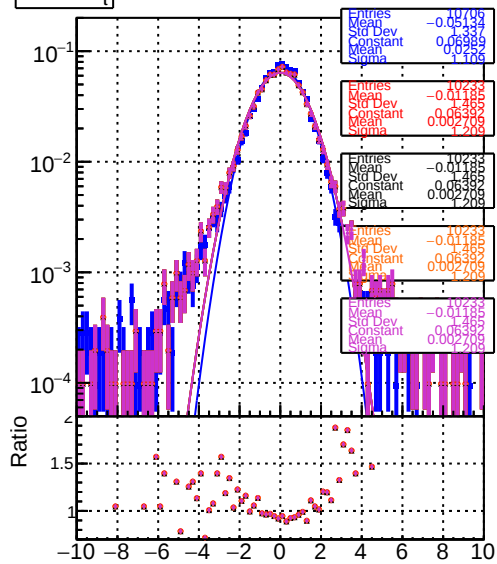
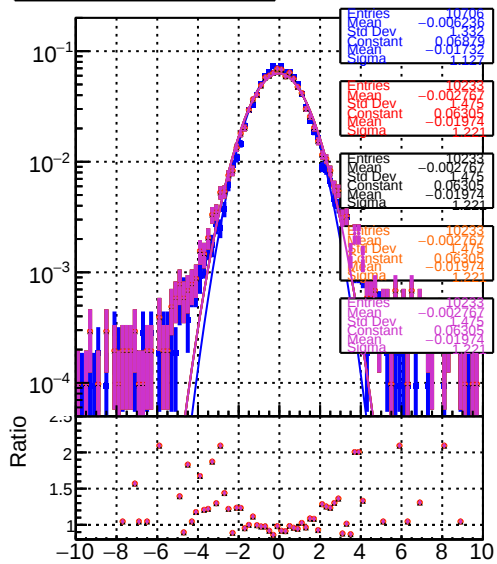
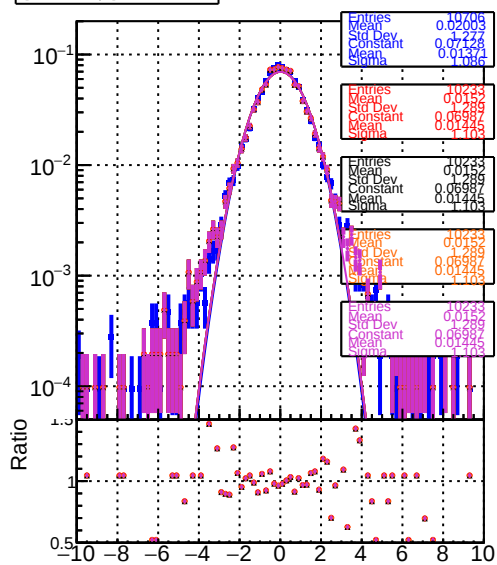
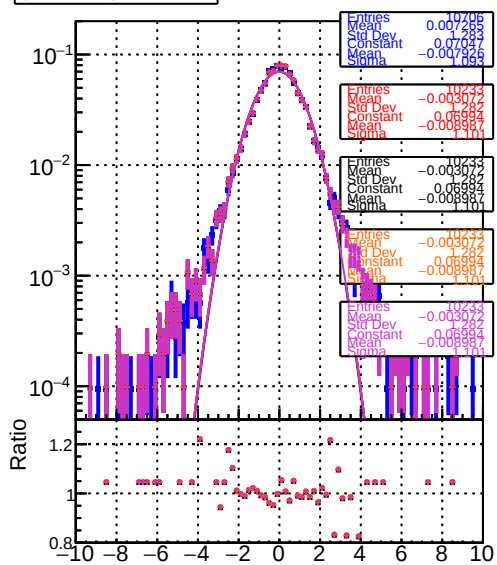
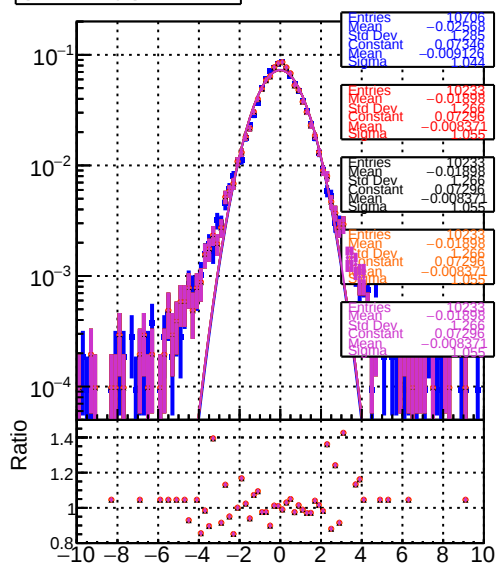


pull of  $p_t$ 

pull of qoverp parameter



DOM CKF TThar  
DOM CKF TTharPU  
DOM CKF TTharPU+UPDATE  
DOM CKF TTharPU+UPDATE+VVA+BN-2

pull of  $\phi$  parameterpull of  $\theta$  parameterpull of  $dx_y$  parameterpull of  $dz$  parameter