

Comparison of kinematic fit χ^2 between data and MC

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- Updated DEventWriter to include branches with pull information, with flag for file size consideration. This is currently being debugged.
- Build custom action for DSelector to investigate χ^2 as they depend on kinematic variables.
- Build custom action for DSelector to investigate pulls as they depend on kinematic variables.

Kinematic fit reactions to be investigated

Reaction	Kin. fit	Mass con.
$\pi^+\pi^-$	P4 + V	-
	P4	-
	Vertex	-
K^+K^-	P4 + V	-
	P4	-
	V	-
$\pi^+\pi^-\pi^0$	P4 + V	-
	P4	-
	V	-
	P4 + V	π^0
	P4	
	V	
$\pi^+\pi^-\eta$	P4 + V	η
	P4	
	V	

Reaction	Kin. fit	Mass con.	
$\pi^0\pi^0\pi^0$	P4	-	
	P4	π^0	
	P4	$2\pi^0$	
	P4	$3\pi^0$	
	$\pi^0\pi^0\eta$	P4	η
		P4	π^0
P4		$2\pi^0$	
P4		$\pi^0\eta$	
$\pi^0\pi^0\eta$	P4	$2\pi^0\eta$	
$\pi^0\gamma$	P4	-	
	P4	π^0	

- Reaction filter configuration file being finalized to build trees with pull distribution information.

- Scripts for tests comparing data and MC, specifically χ^2 and Kolmogorov test.
- Scale factors for the kinematic fit error matrices.