

Comparison of kinematic fit χ^2 between data and MC

Alex Barnes Stuart Fegan Daniel Lersch Sebastian Cole

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Completed steps

- Updated DEventWriter to include branches with pull information.
- Built reaction filter configuration file to for further testing and submission later today.
- Build custom action for DSelector to investigate χ^2 and pulls as they depend on kinematic variables. This is still being tested and debugged.
- Testing implementation of the χ^2 , Kolmogorov-Smirnov test, and possibly developing others.

Updated 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	-
	P4 + V	π^0
	P4	
$\pi^+\pi^-\eta$	P4 + V	η
	P4	

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