



Status Report

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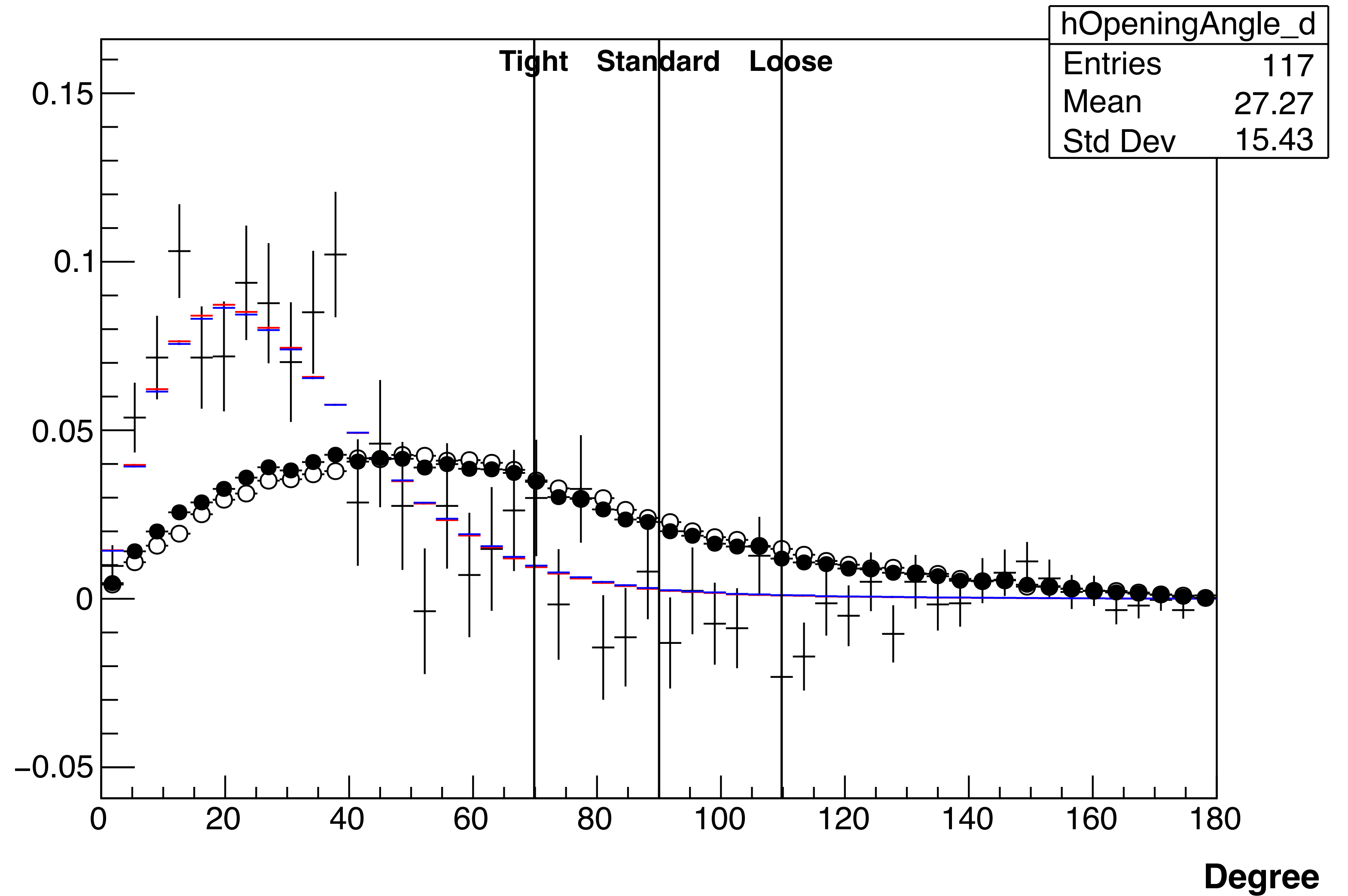
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Status

- Systematic study

- **Opening angle distribution**

- **Data** ● : Right Sign candidates
- **Data** ○ : Wrong Sign candidates
- **Data** : RS-WS
- **MC** : eXi pair from true Xic0
- **MC** : Right Sign candidates



Back up

Status

- Xi topology cut

Presented

Cut variables	VeryLoose	Loose	Standard	Tight	VertTight
Λ Mass tolerance (MeV/c^2)	7.5	7.5	7.5	7.5	7.5
Ξ Mass tolerance (MeV/c^2)	8	8	8	8	8
DCA of V0 to PV (cm)	>0.05	>0.05	>0.05	>0.1	>0.15
DCA of V0 daughters to PV (cm)	>0.05	>0.061	>0.073	>0.088	>0.102
V0 cosine of pointing angle to Ξ vertex	>0.98	>0.981	>0.983	>0.9839	>0.985
DCA of bachelor track to PV (cm)	>0.05	>0.05	>0.05	>0.05	>0.1
V0 decay length (cm)	>1.1	>1.55	>2.67	>3.6	>4.39
Ξ decay length (cm)	>0.5	>0.5	>0.5	>0.53	>0.72

Final

Cut variables	VeryLoose	Loose	Standard	Tight	VertTight
Λ Mass tolerance (MeV/c^2)	7.5	7.5	7.5	7.5	7.5
Ξ Mass tolerance (MeV/c^2)	8	8	8	8	8
DCA of V0 to PV (cm)	>0.05	>0.07	>0.09	>0.10	>0.12
DCA of V0 daughters to PV (cm)	>0.05	>0.07	>0.095	>0.11	>0.13
V0 cosine of pointing angle to Ξ vertex	>0.98	>0.981	>0.983	>0.9839	>0.985
DCA of bachelor track to PV (cm)	>0.05	>0.05	>0.05	>0.05	>0.1
V0 decay length (cm)	>1.1	>1.55	>2.67	>3.6	>4.39
Ξ decay length (cm)	>0.5	>0.5	>0.5	>0.6	>0.7