

MC-TESTER v1.24.4 - results for decays of particle τ^+ (PDG code -15).

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Results from **generator 1**.

Pythia + Tauola Interface Test
 τ^+ decays
New

- From directory:
- Total number of analyzed decays: 6000
- Number of decay channels found: 2 + 31

Results from **generator 2**.

Pythia + Tauola Interface Test
 τ^+ decays
New

- From directory:
/tmp/inugent/CMSSW_7_1_X_2014-05-20-0200/src
- Total number of analyzed decays: 10055
- Number of decay channels found: 2

Found decay modes:

Decay channel	Branching Ratio \pm Rough Errors		Max. shape dif. param.
	Generator #1	Generator #2	
$\tau^+ \rightarrow \pi^+ \pi^0 \pi^0 \widetilde{\nu}_\tau$	13.9667 \pm 0.4825%	49.3784 \pm 0.7008%	0.00045
$\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \widetilde{\nu}_\tau$	13.5000 \pm 0.4743%	50.6216 \pm 0.7095%	0.00000
Channels From First Generator Only:			
$\tau^+ \rightarrow \pi^+ \pi^0 \widetilde{\nu}_\tau$	39.2500 \pm 0.8088 %	-	-
$\tau^+ \rightarrow \pi^+ \widetilde{\nu}_\tau$	16.1833 \pm 0.5193 %	-	-
$\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \pi^0 \widetilde{\nu}_\tau$	7.7500 \pm 0.3594 %	-	-
$\tau^+ \rightarrow \pi^+ \pi^0 \pi^0 \pi^0 \widetilde{\nu}_\tau$	1.4667 \pm 0.1563 %	-	-
$\tau^+ \rightarrow K^+ \pi^- \pi^+ \widetilde{\nu}_\tau$	1.3667 \pm 0.1509 %	-	-
$\tau^+ \rightarrow K^+ \widetilde{\nu}_\tau$	1.0000 \pm 0.1291 %	-	-
$\tau^+ \rightarrow \pi^+ \pi^0 \gamma \widetilde{\nu}_\tau$	0.9000 \pm 0.1225 %	-	-
$\tau^+ \rightarrow \pi^+ K_L^0 \widetilde{\nu}_\tau$	0.8333 \pm 0.1179 %	-	-
$\tau^+ \rightarrow K^+ \pi^0 \widetilde{\nu}_\tau$	0.6000 \pm 0.1000 %	-	-
$\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \gamma \widetilde{\nu}_\tau$	0.5000 \pm 0.0913 %	-	-
$\tau^+ \rightarrow \pi^+ K_L^0 \pi^0 \widetilde{\nu}_\tau$	0.4500 \pm 0.0866 %	-	-
$\tau^+ \rightarrow \pi^+ \gamma \widetilde{\nu}_\tau$	0.4167 \pm 0.0833 %	-	-
$\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \pi^0 \pi^0 \widetilde{\nu}_\tau$	0.2333 \pm 0.0624 %	-	-
$\tau^+ \rightarrow K^- K^+ \pi^+ \widetilde{\nu}_\tau$	0.2000 \pm 0.0577 %	-	-
$\tau^+ \rightarrow \pi^+ \pi^0 \pi^0 \gamma \widetilde{\nu}_\tau$	0.2000 \pm 0.0577 %	-	-
$\tau^+ \rightarrow K^+ K_L^0 \widetilde{\nu}_\tau$	0.1833 \pm 0.0553 %	-	-
$\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \pi^0 \gamma \widetilde{\nu}_\tau$	0.1667 \pm 0.0527 %	-	-
$\tau^+ \rightarrow \pi^+ \pi^0 \gamma \gamma \widetilde{\nu}_\tau$	0.1167 \pm 0.0441 %	-	-
$\tau^+ \rightarrow \pi^+ \pi^0 \pi^0 \pi^0 \pi^0 \widetilde{\nu}_\tau$	0.1000 \pm 0.0408 %	-	-
$\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \pi^0 \pi^0 \pi^0 \widetilde{\nu}_\tau$	0.1000 \pm 0.0408 %	-	-
$\tau^+ \rightarrow \pi^- \pi^- \pi^+ \pi^+ \pi^+ \widetilde{\nu}_\tau$	0.0833 \pm 0.0373 %	-	-
$\tau^+ \rightarrow K^+ \pi^- \pi^+ \pi^0 \widetilde{\nu}_\tau$	0.0833 \pm 0.0373 %	-	-
$\tau^+ \rightarrow \pi^- \pi^+ \pi^+ K_L^0 \widetilde{\nu}_\tau$	0.0833 \pm 0.0373 %	-	-
$\tau^+ \rightarrow \pi^- \pi^- \pi^+ \pi^+ \pi^+ \pi^0 \widetilde{\nu}_\tau$	0.0667 \pm 0.0333 %	-	-
$\tau^+ \rightarrow K^+ \pi^- \pi^+ \gamma \widetilde{\nu}_\tau$	0.0333 \pm 0.0236 %	-	-
$\tau^+ \rightarrow K^+ \gamma \widetilde{\nu}_\tau$	0.0333 \pm 0.0236 %	-	-
$\tau^+ \rightarrow \pi^+ K_L^0 \pi^0 \pi^0 \widetilde{\nu}_\tau$	0.0333 \pm 0.0236 %	-	-
$\tau^+ \rightarrow \pi^+ K_L^0 K_L^0 \widetilde{\nu}_\tau$	0.0333 \pm 0.0236 %	-	-
$\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \gamma \gamma \widetilde{\nu}_\tau$	0.0333 \pm 0.0236 %	-	-
$\tau^+ \rightarrow K^+ K_L^0 \pi^0 \widetilde{\nu}_\tau$	0.0167 \pm 0.0167 %	-	-
$\tau^+ \rightarrow K^+ \pi^0 \pi^0 \widetilde{\nu}_\tau$	0.0167 \pm 0.0167 %	-	-

Similarity coefficients: T1=133.897068 %, T2=0.014096 %

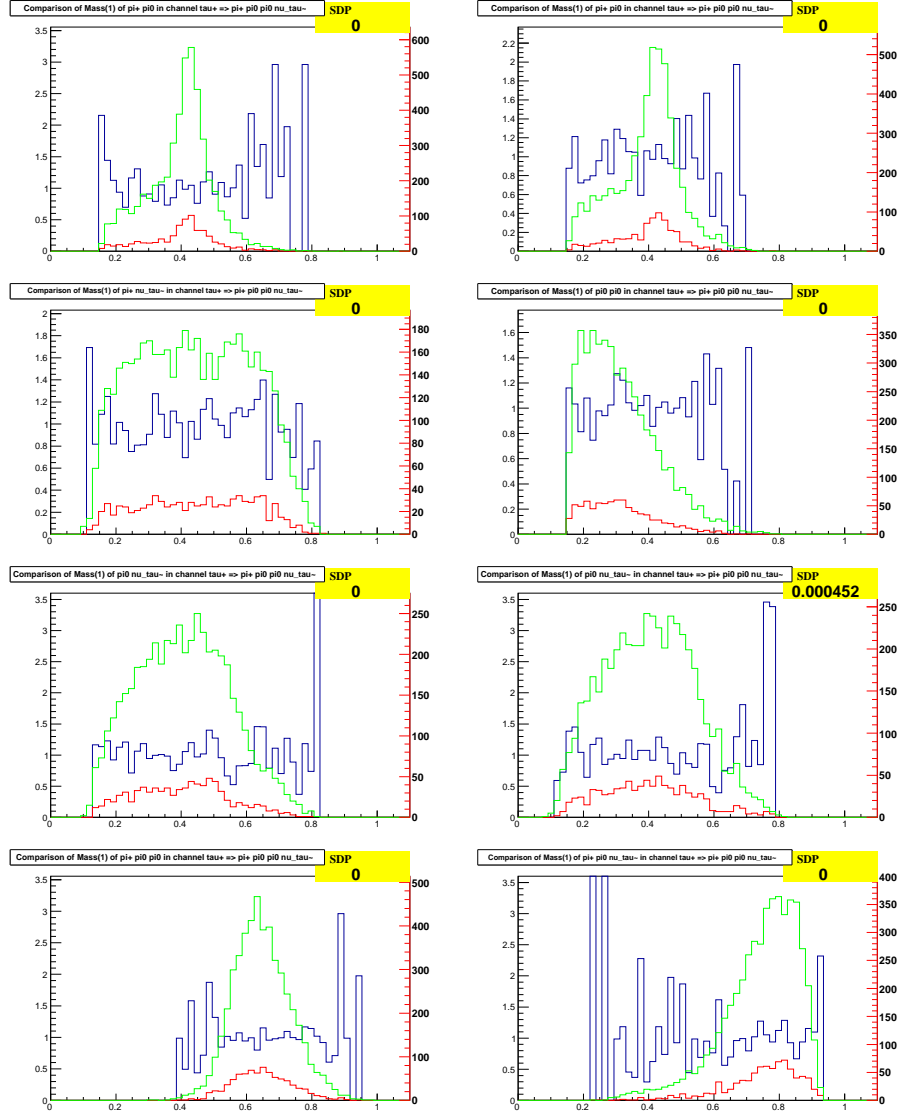
Contents

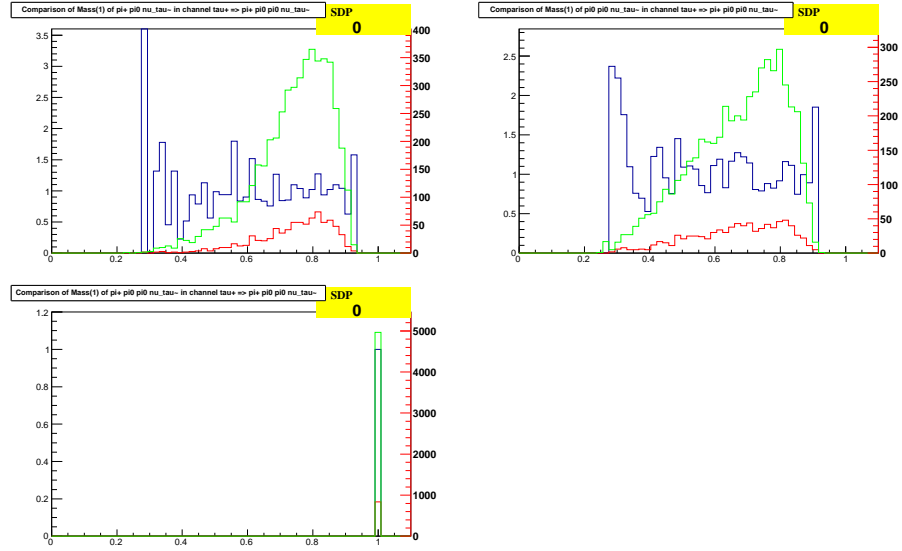
1	Decay Channel: $\tau^+ \rightarrow \pi^+ \pi^0 \pi^0 \tilde{\nu}_\tau$	4
2	Decay Channel: $\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \tilde{\nu}_\tau$	5

1 Decay Channel: $\tau^+ \rightarrow \pi^+ \pi^0 \pi^0 \tilde{\nu}_\tau$

Number of events from **generator 1**: 838

Number of events from **generator 2**: 4965





2 Decay Channel: $\tau^+ \rightarrow \pi^- \pi^+ \pi^+ \tilde{\nu}_{\tau}$

Number of events from **generator 1**: 810

Number of events from **generator 2**: 5090

