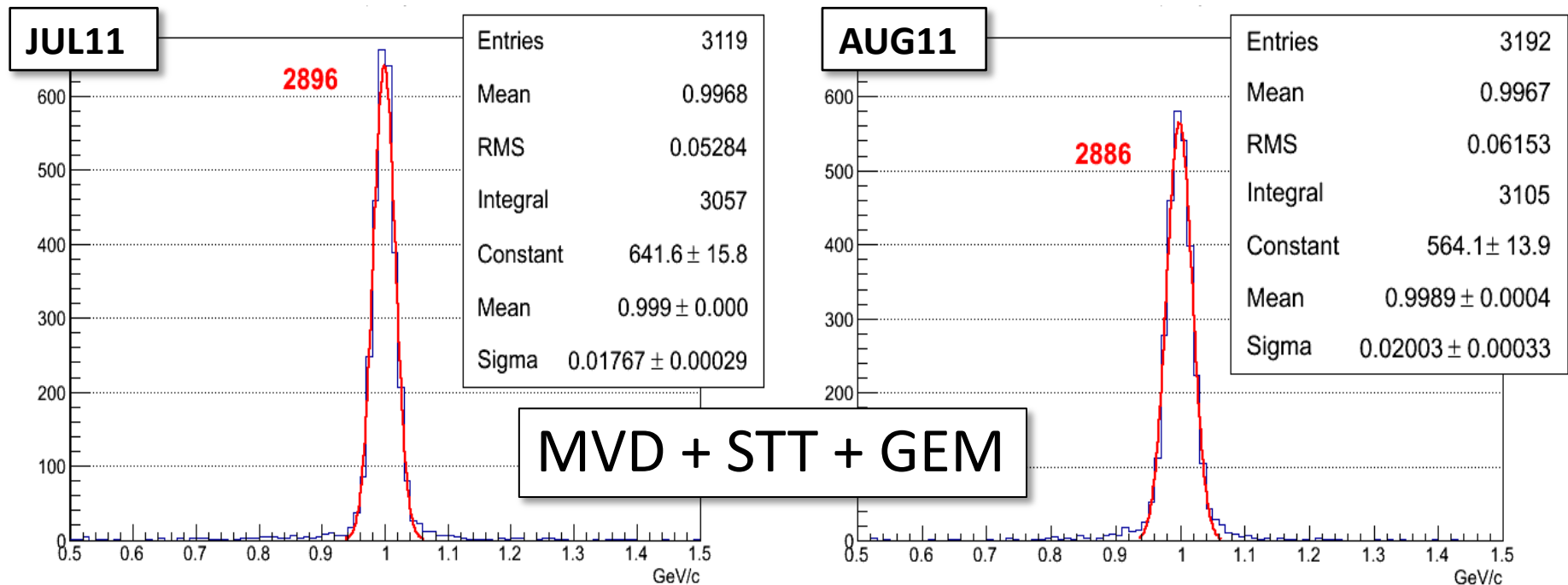


Efficiency test with Box Generator

SAMPLE

- ◆ 1000 events
- ◆ muon tracks
- ◆ 4 tracks/event
- ◆ 1 GeV/c
- ◆ ϕ [0, 360] deg
- ◆ θ [0, 180] deg

Simulation → *digitization* → *reconstruction (PR + Kalman)*



	Resolution (%)		Entries		Within 3σ	
	jul11	aug11	jul11	aug11	jul11	aug11
STT alone	3.23	3.19	3001	3057	2463	2427
MVD + STT	1.80	2.07	3121	3187	2816	2816
MVD + STT + GEM	1.77	2.00	3119	3192	2896	2886

The efficiencies are the same within errors

This is consistent with the PR efficiencies shown in Gianluigi's tables in the past

There is a small loss in resolution

TO DO

Test different particles

Test different energies

Test η_c : Gianluigi is doing this but he is experiencing crashes in jul11, aug11 and trunk. He is investigating this.