



Update on the $\psi(2S)$ -to- $J\psi$ measurement

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2024/11/26

Systematic uncertainty

□ Systematic uncertainty

□ Mass window

- Left side: 2.76, 2.80, **2.84**, 2.88, 2.92
- Right side: 3.16, **3.20**, 3.24

□ Fit range

- Left side: 2.08, 2.12, **2.20**, 2.28, 2.32
- Right side: 4.04, **4.12**, 4.20

□ Bkg fit function

- **pol2/(1+exp)**, $\exp/(1+\exp)$ for $p_T < 2$ GeV/c
- **pol2**, **pol3** for $p_T > 2$ GeV/c

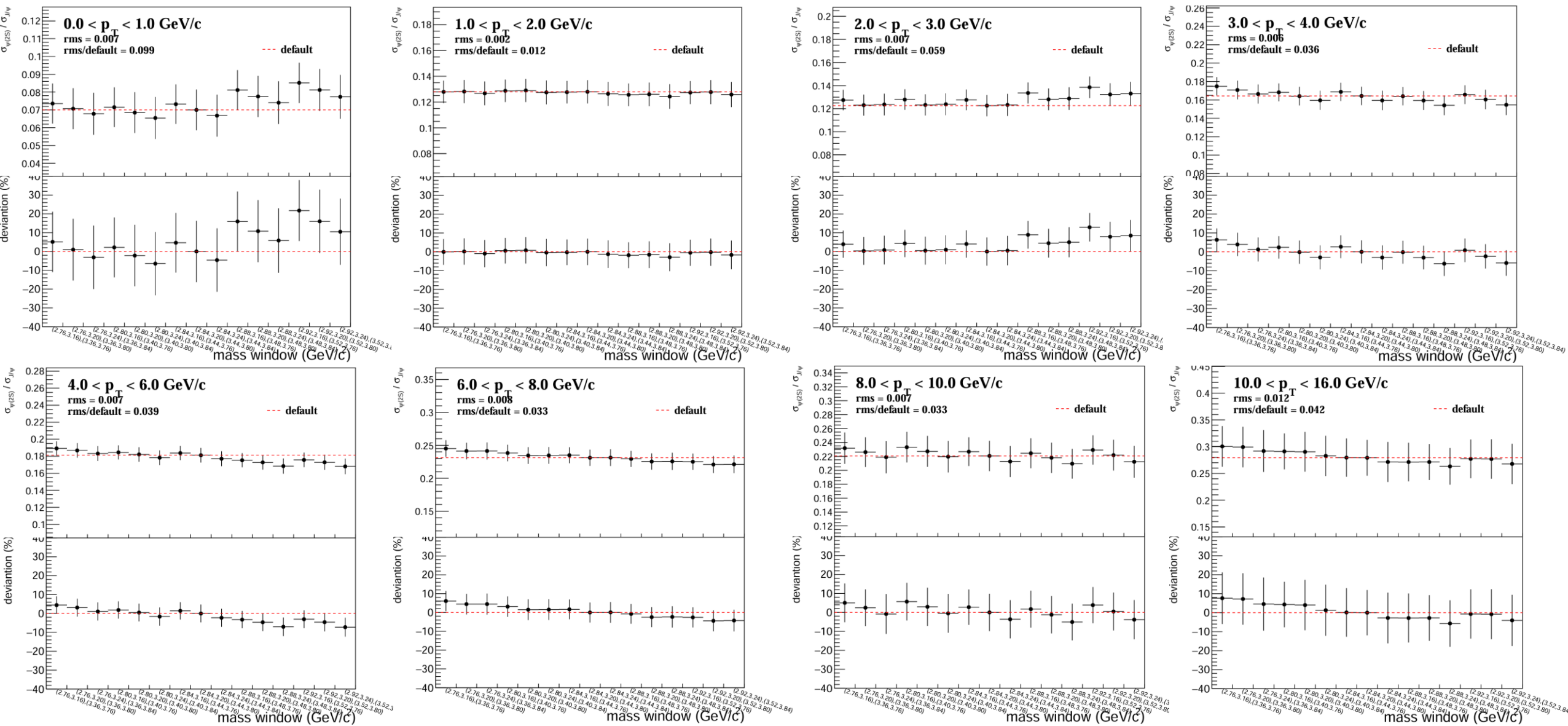
□ Tracking

- TPC: TPCncls > 90, 95, **100**, 105, 110
- ITS: **ITSSPDAny**, ITSibAny, ITSSPDAll
- DCA: $|DCA_{xy}|, |DCA_z| < 0.8, \mathbf{1.0}, 1.2$

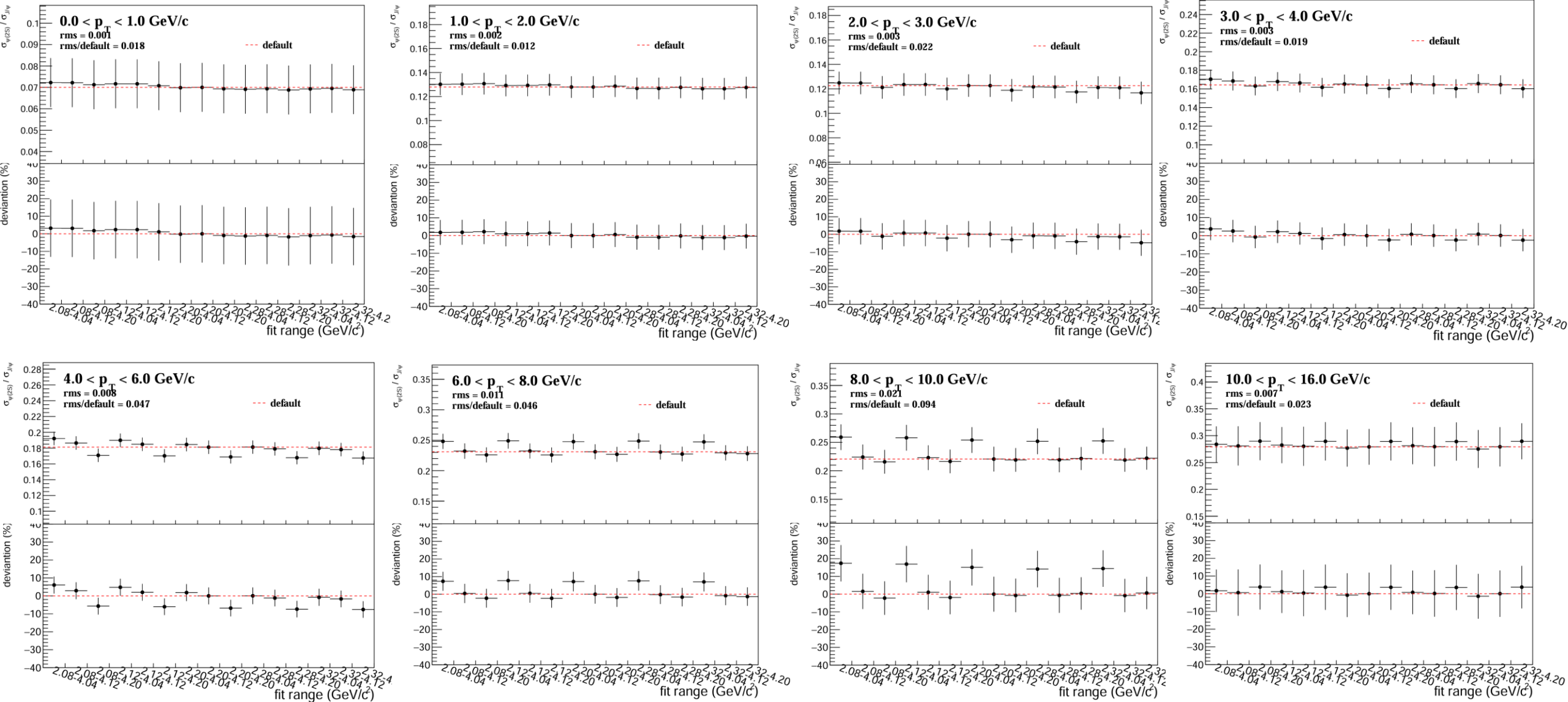
□ PID

- Ongoing...

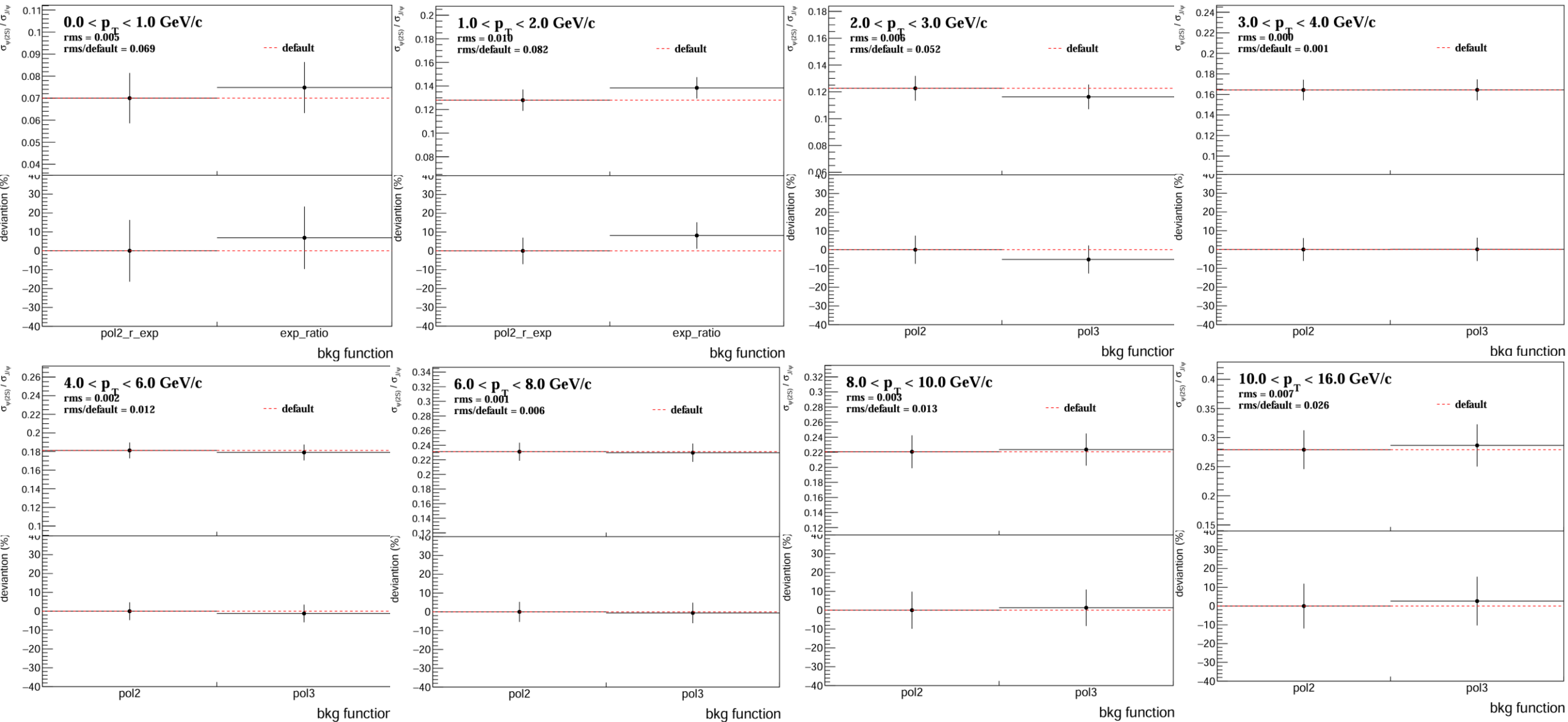
Mass window



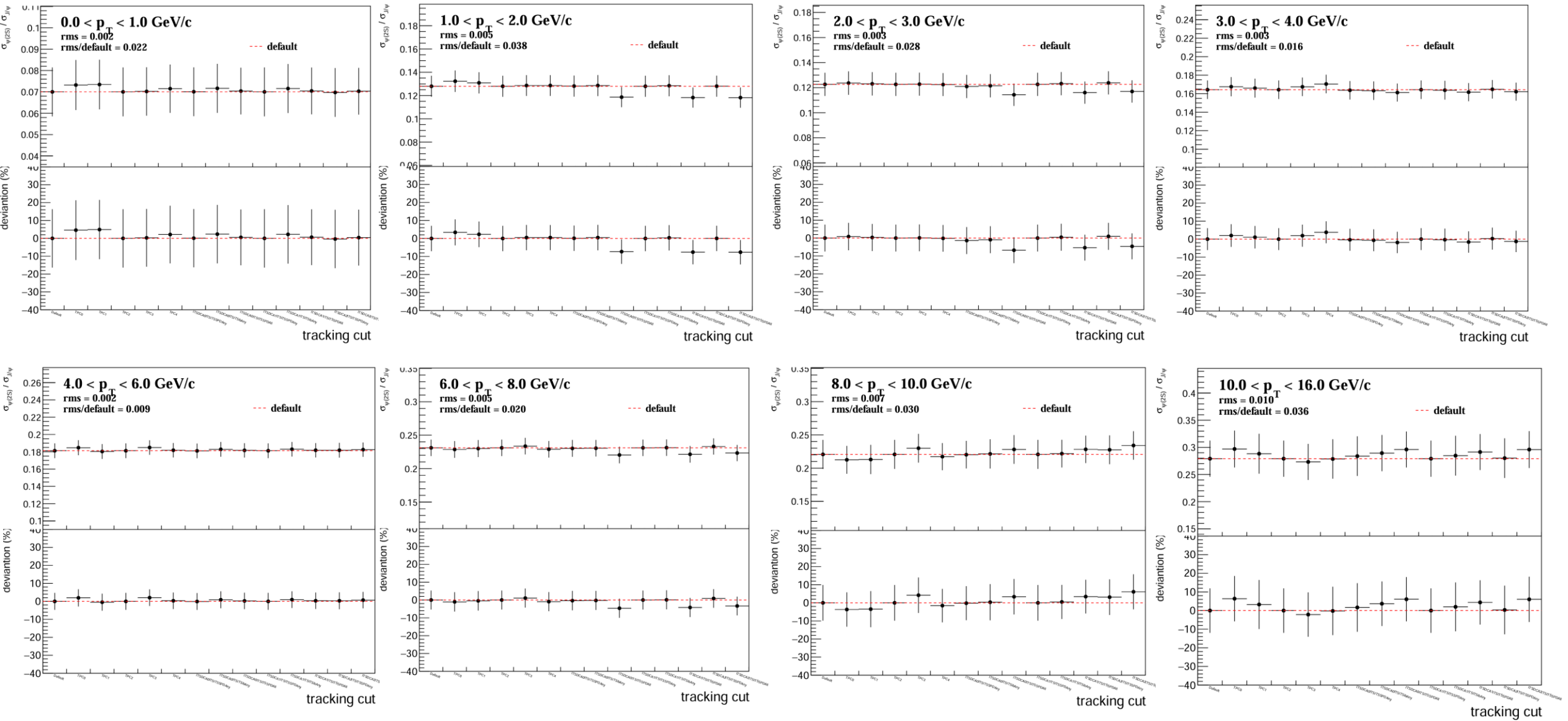
Fit range



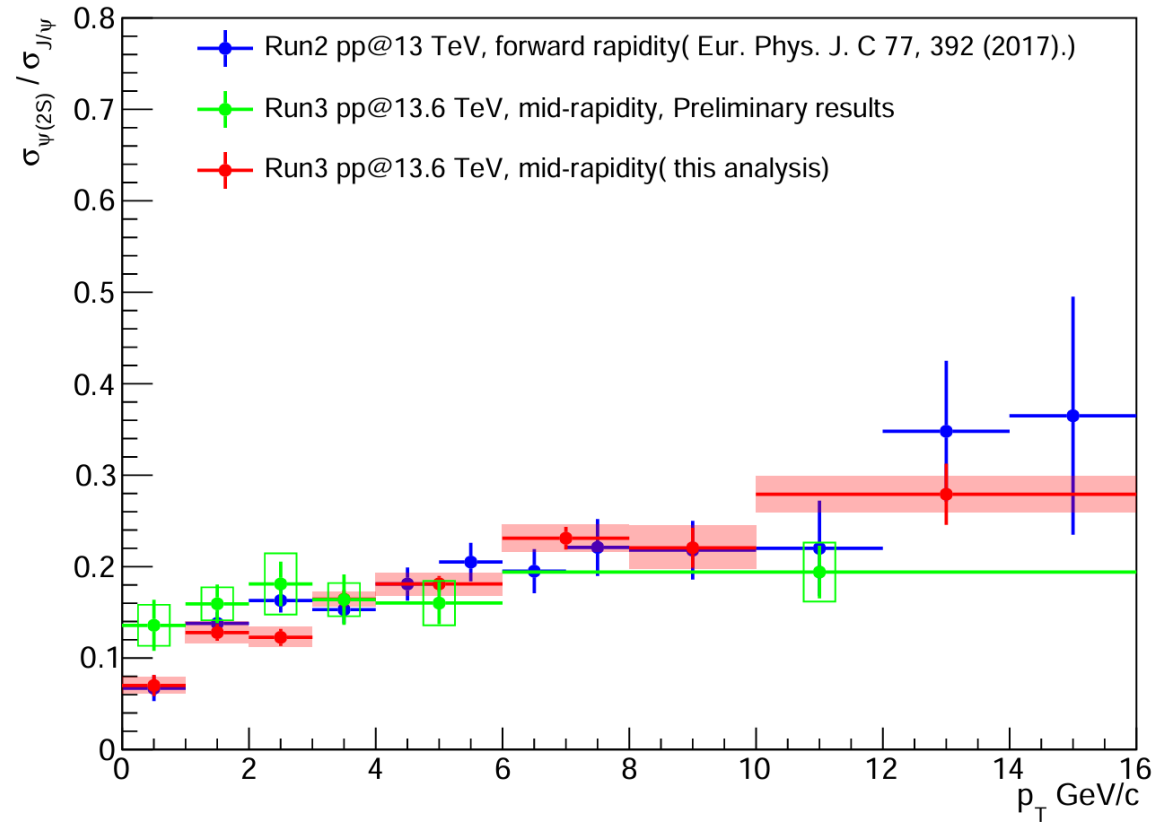
Bkg fit function



Tracking cuts



Results



Systematic uncertainty

- Mass window
- Fit range
- Bkg fit function
- Tracking
- PID

Back up

