

11.8 fb<sup>-1</sup> (2018) + 41.3 fb<sup>-1</sup> (2017) + 16.3 fb<sup>-1</sup> (2016)

Efficiency

**CMS**

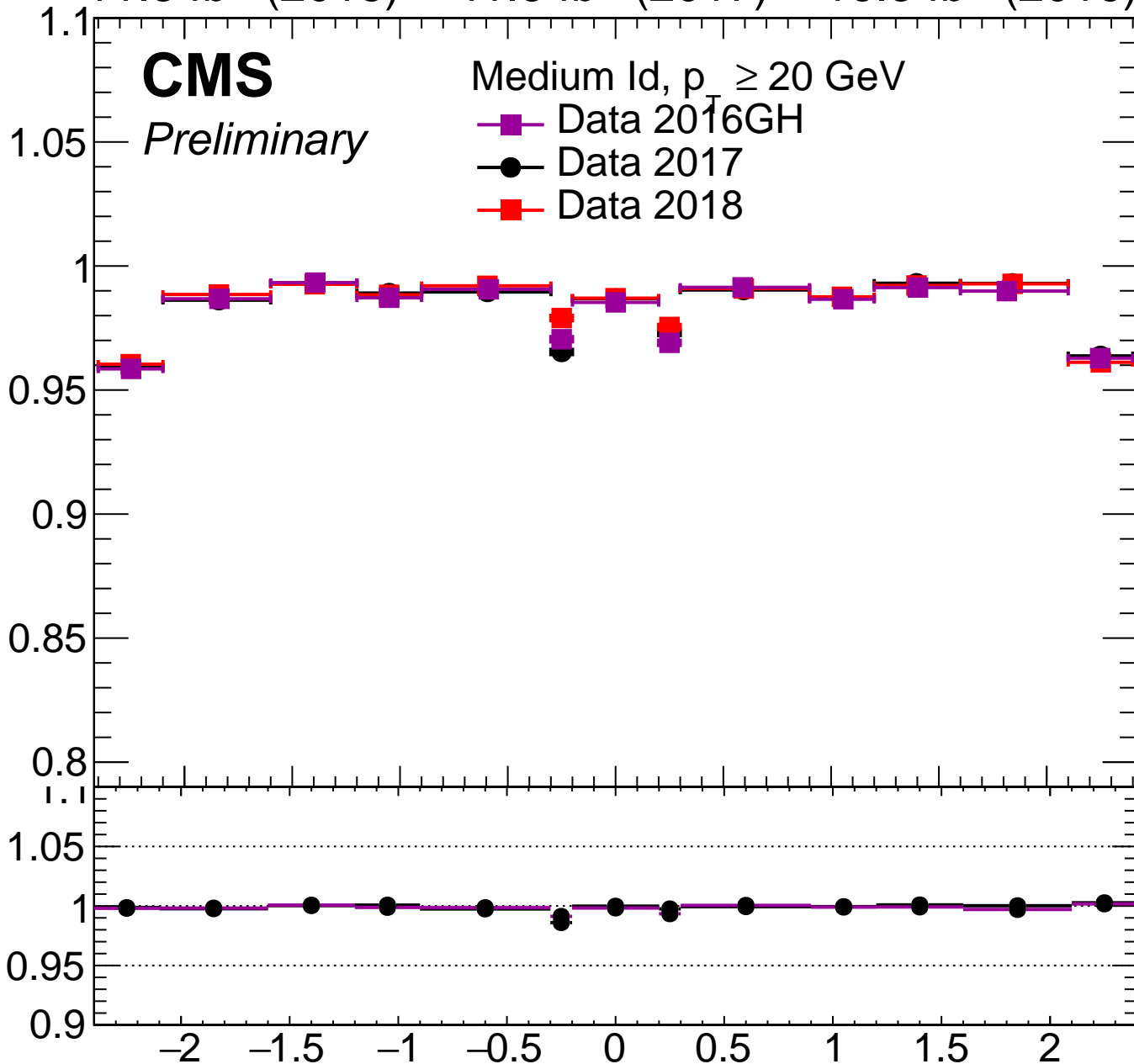
*Preliminary*

Medium Id,  $p_{\text{T}} \geq 20$  GeV

■ Data 2016GH

● Data 2017

■ Data 2018



Ratio

Muon  $\eta$