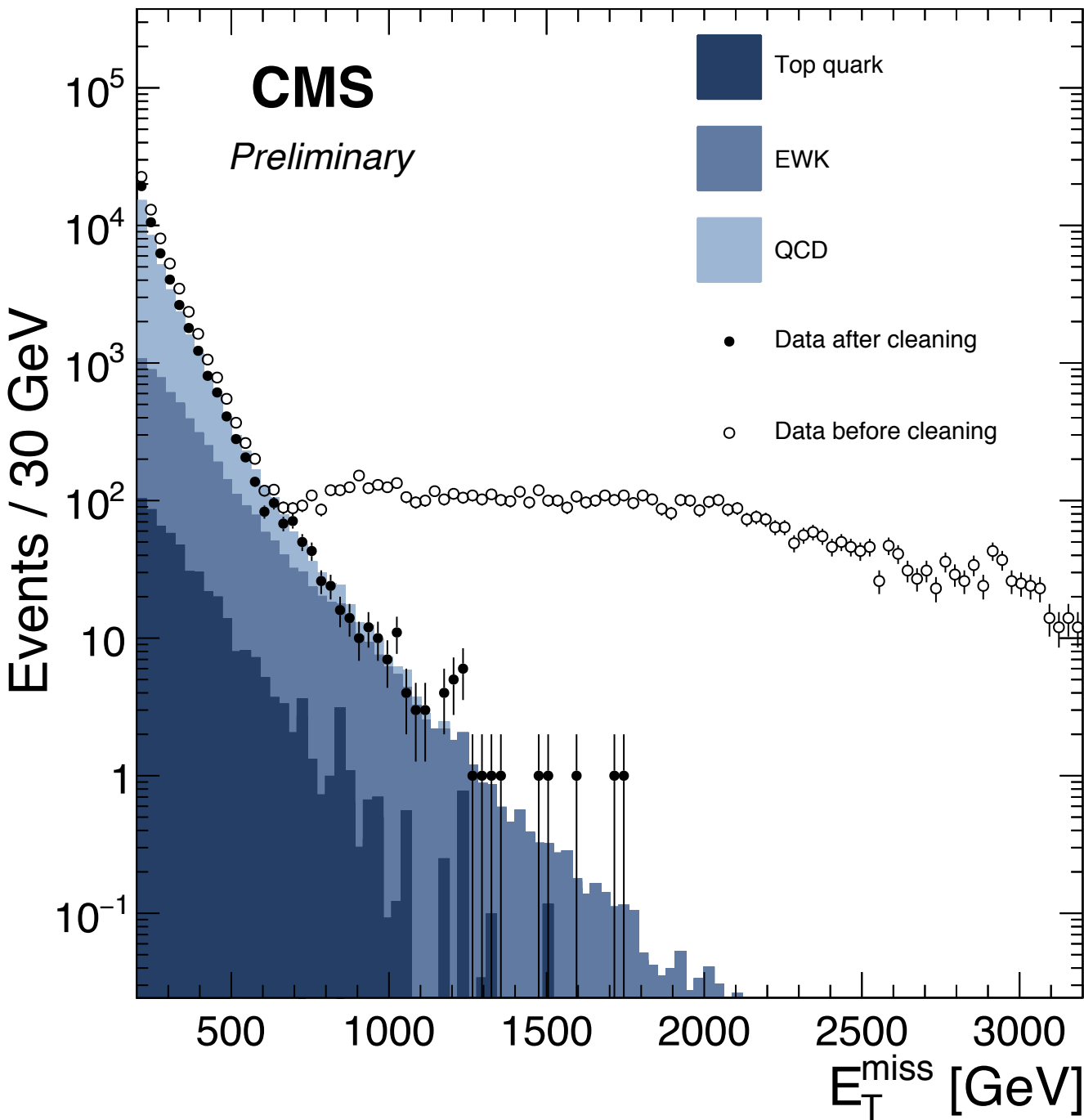
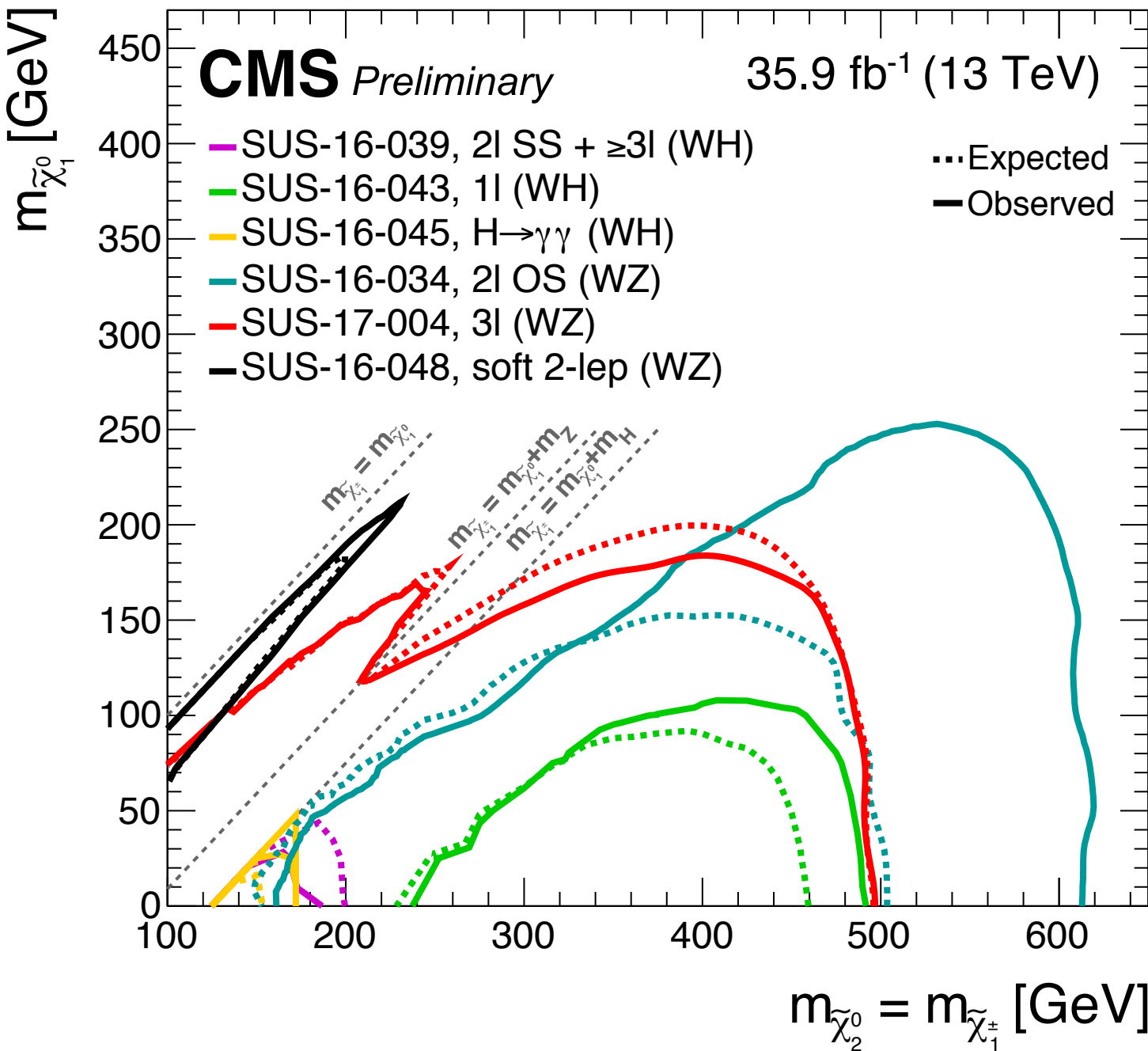


12.9 fb<sup>-1</sup> (13 TeV, 2016)



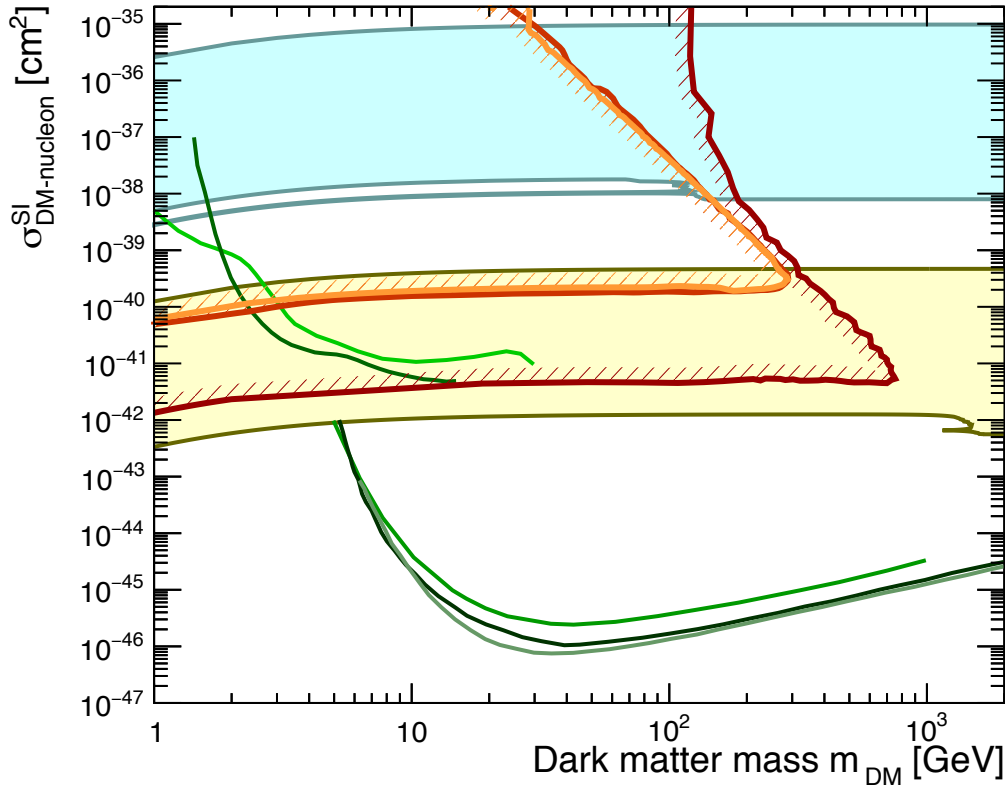
$$pp \rightarrow \tilde{\chi}_2^0 \tilde{\chi}_1^\pm$$

EPS2017



CMS Preliminary

LHCP 2017

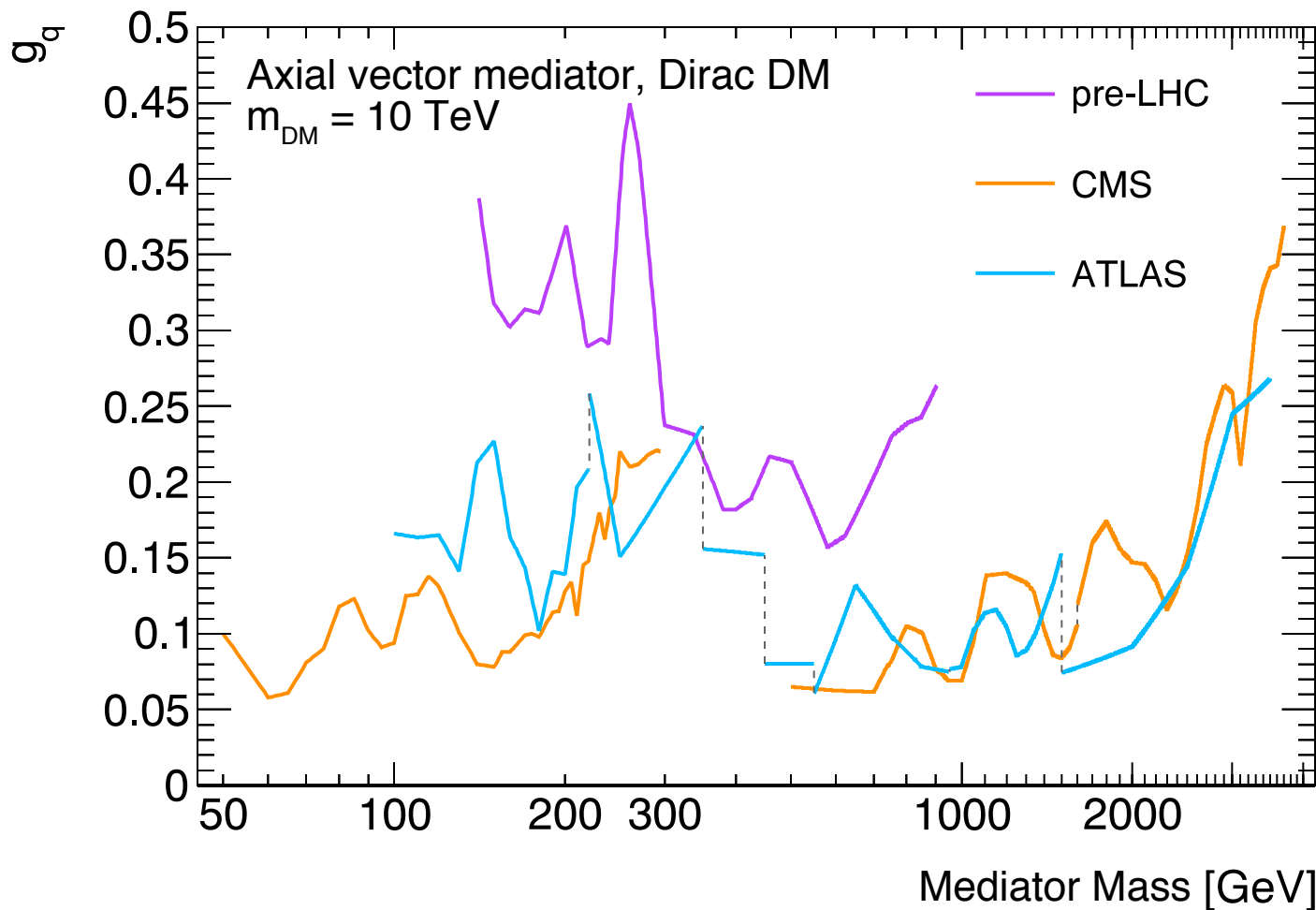


**CMS observed exclusion 90% CL**  
Vector med., Dirac DM;  $g_q = 0.25, g_{\text{DM}} = 1.0$

- Boosted dijet** ( $35.9 \text{ fb}^{-1}$ )  
[EXO-17-001]
- Dijet** ( $35.9 \text{ fb}^{-1}$ )  
[EXO-16-056]
- DM +  $jV_{qq}$**  ( $35.9 \text{ fb}^{-1}$ )  
[EXO-16-048]
- DM +  $\gamma$**  ( $12.9 \text{ fb}^{-1}$ )  
[EXO-16-039]
- DM +  $Z_{\parallel}$**  ( $35.9 \text{ fb}^{-1}$ )  
[EXO-16-052]

**DD observed exclusion 90% CL**

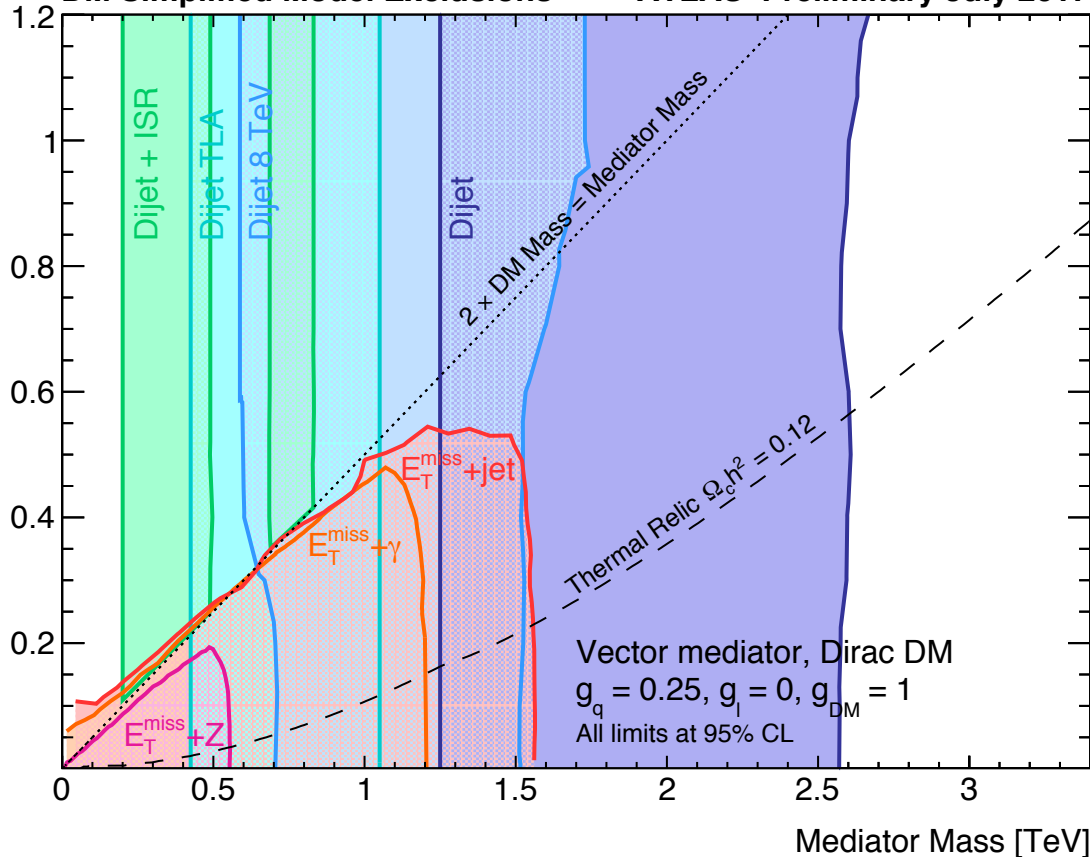
- CRESST-II**  
[arXiv:1509.01515]
- CDMSlite**  
[arXiv:1509.02448]
- PandaX-II**  
[arXiv:1607.07400]
- LUX**  
[arXiv:1608.07648]
- XENON1T**  
[arXiv:1705.06655]



# DM Simplified Model Exclusions

ATLAS Preliminary July 2017

DM Mass [TeV]



- Dijet**  
 $\sqrt{s} = 13 \text{ TeV}, 37.0 \text{ fb}^{-1}$   
 arXiv:1703.09127 [hep-ex]
- Dijet 8 TeV**  
 $\sqrt{s} = 8 \text{ TeV}, 20.3 \text{ fb}^{-1}$   
 Phys. Rev. D. 91 052007 (2015)
- Dijet TLA**  
 $\sqrt{s} = 13 \text{ TeV}, 3.4 \text{ fb}^{-1}$   
 ATLAS-CONF-2016-030
- Dijet + ISR**  
 $\sqrt{s} = 13 \text{ TeV}, 15.5 \text{ fb}^{-1}$   
 ATLAS-CONF-2016-070
- $E_T^{\text{miss}} + \gamma$**   
 $\sqrt{s} = 13 \text{ TeV}, 36.1 \text{ fb}^{-1}$   
 Eur. Phys. J. C 77 (2017) 393
- $E_T^{\text{miss}} + \text{jet}$**   
 $\sqrt{s} = 13 \text{ TeV}, 36.1 \text{ fb}^{-1}$   
 ATLAS-CONF-2017-060
- $E_T^{\text{miss}} + Z$**   
 $\sqrt{s} = 13 \text{ TeV}, 36.1 \text{ fb}^{-1}$   
 ATLAS-CONF-2017-040

# DM Simplified Model Exclusions

ATLAS Preliminary July 2017

DM Mass [TeV]

