



# DPS: MPI@LHC'1017

15.12.2k+17

9<sup>th</sup> International Workshop on Multiple Parton Interactions at the LHC  
11-15 December 2017, Shimla, India





# DPS session



☰ Contribution list

🕒 Timetable

< Wed 13/12 >



Print

PDF

Full screen

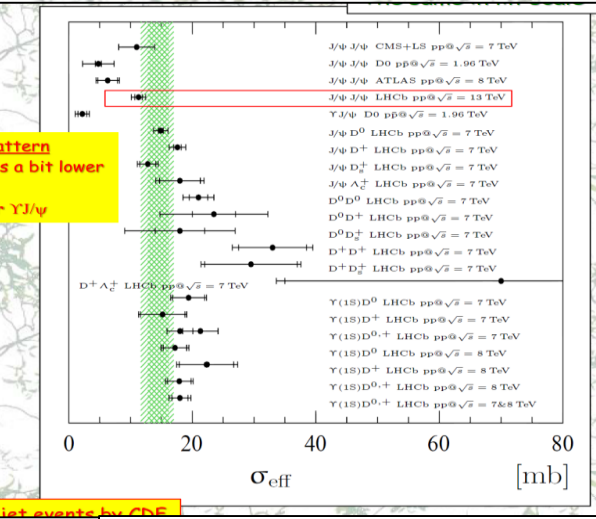
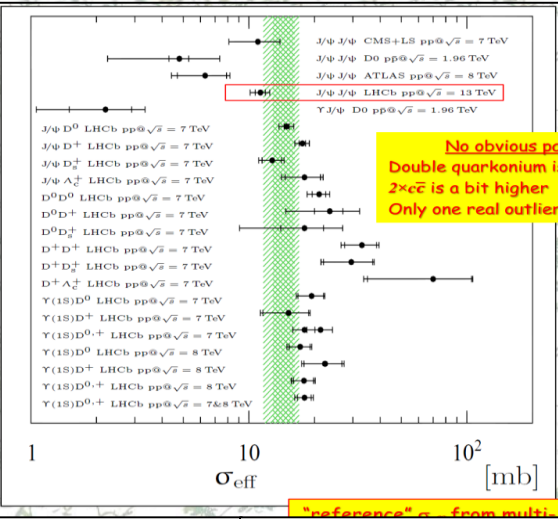
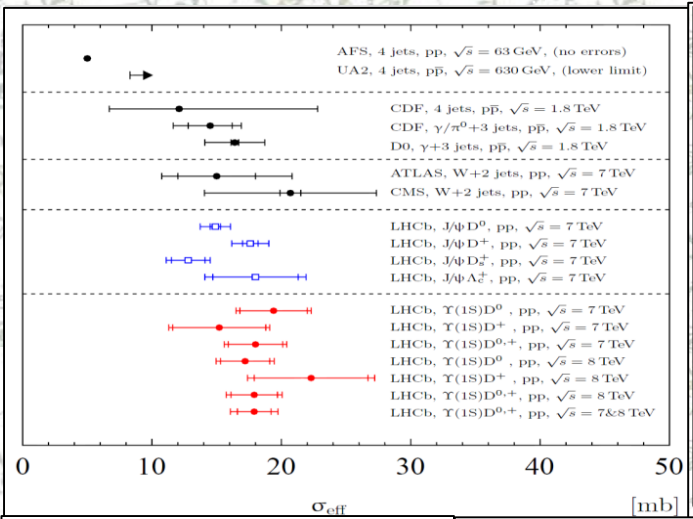
Detailed view

Filter

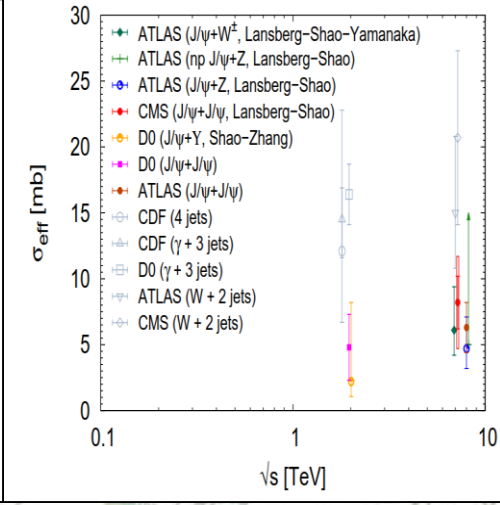
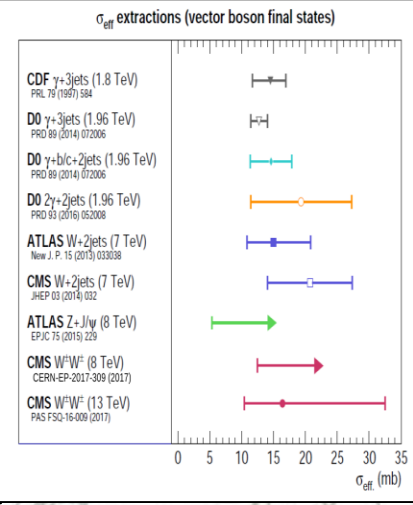
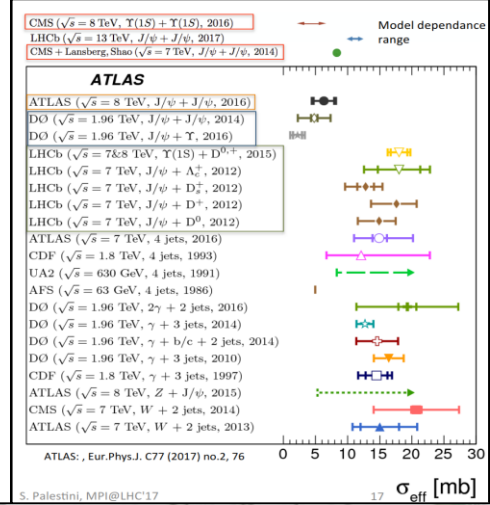
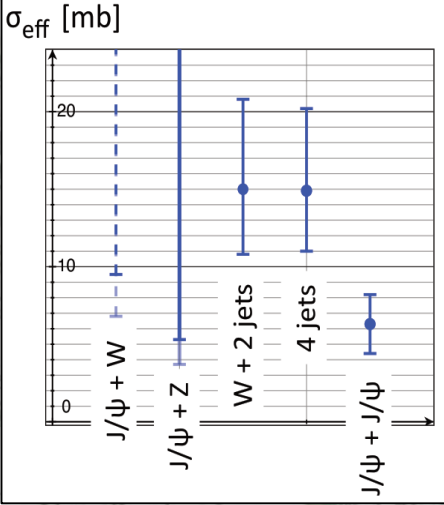
17:00	<b>Review of DPS theory results from 2017</b> <i>Conference Hall, Hotel Peterhoff, Shimla, India</i>	<i>Jonathan Richard Gaunt</i>		17:00 - 17:15
	<b>Double Parton Scattering with the ATLAS Experiment</b> <i>Conference Hall, Hotel Peterhoff, Shimla, India</i>	<i>Sandro Palestini</i>		17:20 - 17:40
	<b>DPS Measurements at CMS</b> <i>Conference Hall, Hotel Peterhoff, Shimla, India</i>	<i>Ms. Ankita Mehta</i>		17:45 - 18:00
18:00	<b>Double J/Psi production at LHCb</b> <i>Conference Hall, Hotel Peterhoff, Shimla, India</i>	<i>Vanya Belyaev</i>		18:05 - 18:20
	<b>DPS studies with open charm hadrons at LHCb</b> <i>Conference Hall, Hotel Peterhoff, Shimla, India</i>	<i>Vanya Belyaev</i>		18:25 - 18:40
	<b>Double-Parton-Scattering Theory Studies with quarkonia</b> <i>Conference Hall, Hotel Peterhoff, Shimla, India</i>	<i>Jean-Philippe Lansberg</i>		18:45 - 19:00
19:00	<b>Production of two pairs of <math>J/\psi</math> mesons and simultaneous production of <math>D_s</math> and <math>B_s</math> mesons in the context of double parton scattering</b>	<i>Antoni Szczurek</i>		



$\sigma_{\text{eff}}$



"reference"  $\sigma_{\text{eff}}$  from multi-jet events by CDF







# $\sigma_{\text{eff}}$ universality



- **Kinematic dependencies**
  - Lack of (precise) experimental data
- **Process dependencies**
  - Experimental data is unclear
  - Precise measurements of quark induced processes are needed
- **Double quarkonia puzzle**
  - More measurements are needed
    - polarization, feed down
  - Breakthrough in NRQCD is welcome

Need more (precise) data!  
Run-II LHC