

# Introduction

Javier Llorente, on behalf of the organizers

Simon Fraser University

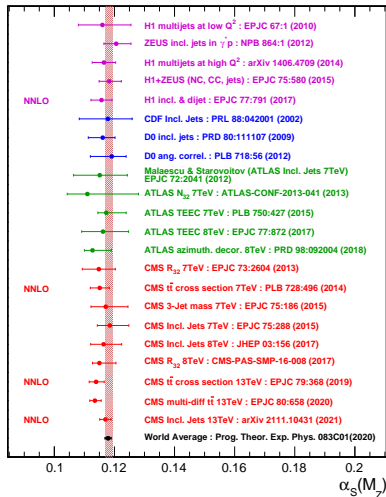
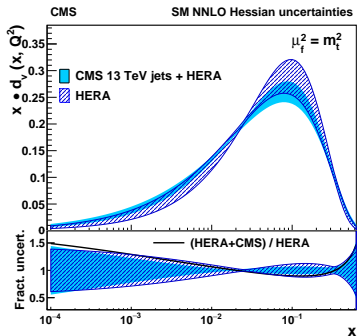
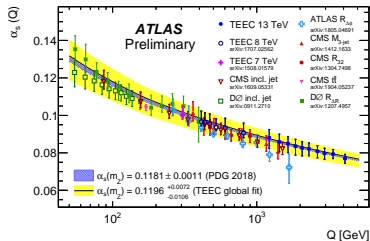
November 29, 2021



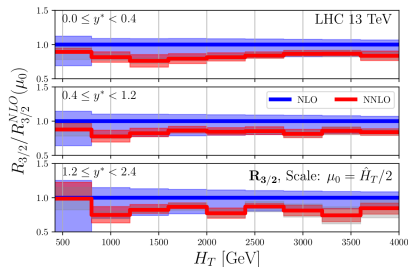
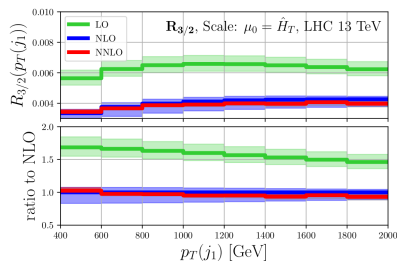
# Jets, PDFs and $\alpha_s$ : The (experimental) state of the art

Latest experimental results from ATLAS and CMS determining  $\alpha_s$

- ATLAS Coll. [ATL-CONF-2020-025](#)
- CMS Coll. [arXiv:2111.10431](#)



## 3-jet production @ NNLO: Czakon, Mitov, Poncelet - PRL 127, 152001



- Calculation of three-jet to two-jet cross section ratios at NNLO.
- Notable reduction of scale uncertainties, as it should be.

16:30	→ 16:35	<b>Introduction</b>	🕒 5m	🔗
<b>Speakers:</b> Eram Syed Rizvi (Queen Mary, University of London) , Javier Llorente Merino (Simon Fraser University (CA))				
16:35	→ 17:05	<b>NNLO predictions for three-jet cross sections at the LHC</b>	🕒 30m	🔗
<b>Speaker:</b> Rene Poncelet (University of Cambridge)				
17:05	→ 17:35	<b>Event shapes, TEECs and determination of the strong coupling constant at ATLAS</b>	🕒 30m	🔗
<b>Speaker:</b> Manuel Alvarez Estevez (Universidad Autonoma de Madrid (ES))				
EventShapes_TEEC...				
17:35	→ 18:05	<b>Strong coupling and PDFs from inclusive jet and t<math>\bar{t}</math> cross-sections at CMS</b>	🕒 30m	🔗
<b>Speaker:</b> Katerina Lipka (Deutsches Elektronen-Synchrotron (DE))				
LHC_EW_29_11_21...				