



ALICE

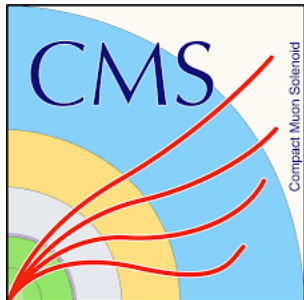


HONEXCOMB #18

(Heavy ion experimental combination)

RGdC, GM, IGB, AK, CB, JG, JO

Jan 31th 2023



HonexComb project

JRA1-LHC-Combine:

“Inter-experiment combination of heavy-ion measurements at the LHC”

→ common publications

HonexComb Coordination / Postdocs:

- ATLAS: Iwona Grabowska-Bold / Yuriy Volkotrub (AGH UST, Krakow)
- LHCb: Giulia Manca / Jiayin Sun (INFN Cagliari, Italy)
- CMS: Raphaël Granier de Cassagnac / Florian Damas (Polytechnique, Paris)
- ALICE: Jacek Otwinowski (INP, Krakow) + Alexander Kalweit (CERN) / Sándor Lökös (INP, Krakow)

+ 2 theorists

- Christian Bierlich (Lund Uni.) and Jacopo Ghiglieri (Subatech, Nantes)

Other currently involved: Jeremy Wilkinson (GSI), Guillaume Taillepied (GSI)...

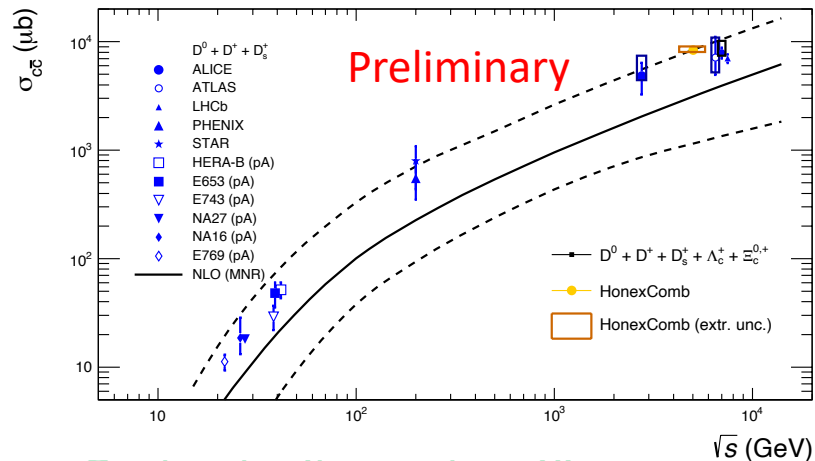
Communication channels:

- Mailing list: honex-comb@cern.ch [[Subscribe](#)]
- Indico: <https://indico.cern.ch/search/?q=honexcomb>
- TWiki: <https://twiki.cern.ch/twiki/bin/view/Honexcomb>

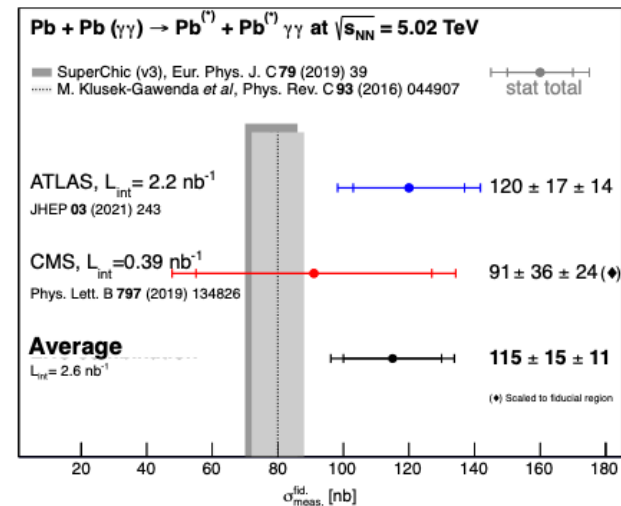
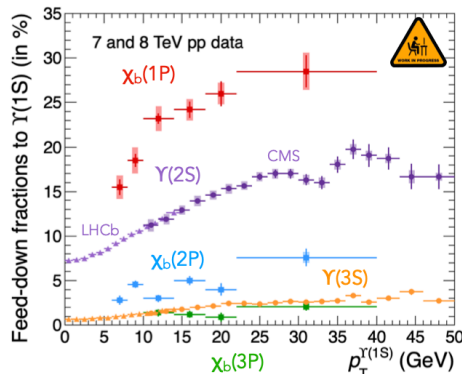
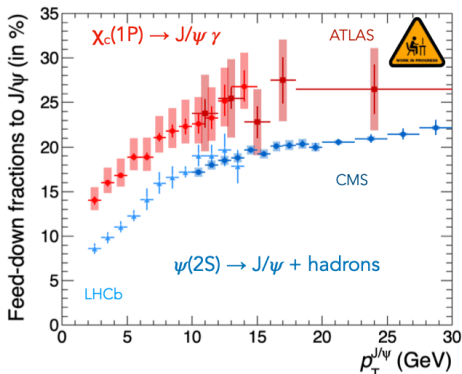
Scientific topics

Discussed in meetings

- Heavy Flavours
- Quarkonia
- Light-by-light scattering
- Exclusive ditau production
- nPDF
- EW bosons
- + Centrality definition
- + Top quarks
- + Jets
- + ...new ideas?



Goal: submit soon to arXiv



Feed-down contributions to quarkonium production at the LHC (work in progress)

[arXiv:2204.02845](https://arxiv.org/abs/2204.02845)

LPCC heavy-ion working group

- The group is created
 - Important if we move to formal joint publications
 - Important if we want to live beyond Strong-2020 (Nov. 2023)
 - <https://lpcc.web.cern.ch/content/lhc-hi-wg>
 - Dedicated mailing list [[subscribe](#)]

Conveners:

- ALICE: Alexander Kalweit and Marta Verweij
- ATLAS: Iwona Grabowska-Bold and Jiangyong Jia
- CMS: Raphael Granier de Cassagnac and Yi Chen
- LHCb: Giulia Manca and Benjamin Audurier
- Theory: Liliana Apolinario and Urs Wiedemann
- Reach all through lhc-hiwg-admin@cern.ch