

HEPData usage in ALICE

Enrico Scomparin (INFN Torino, Italy) - ALICE Collaboration

- ❑ Short summary on the ALICE policy/procedures for submission
- ❑ Some statistics on the collected data
- ❑ A few comments/suggestions for possible improvements

HEPData Advisory Board meeting, Durham, January 28 2020

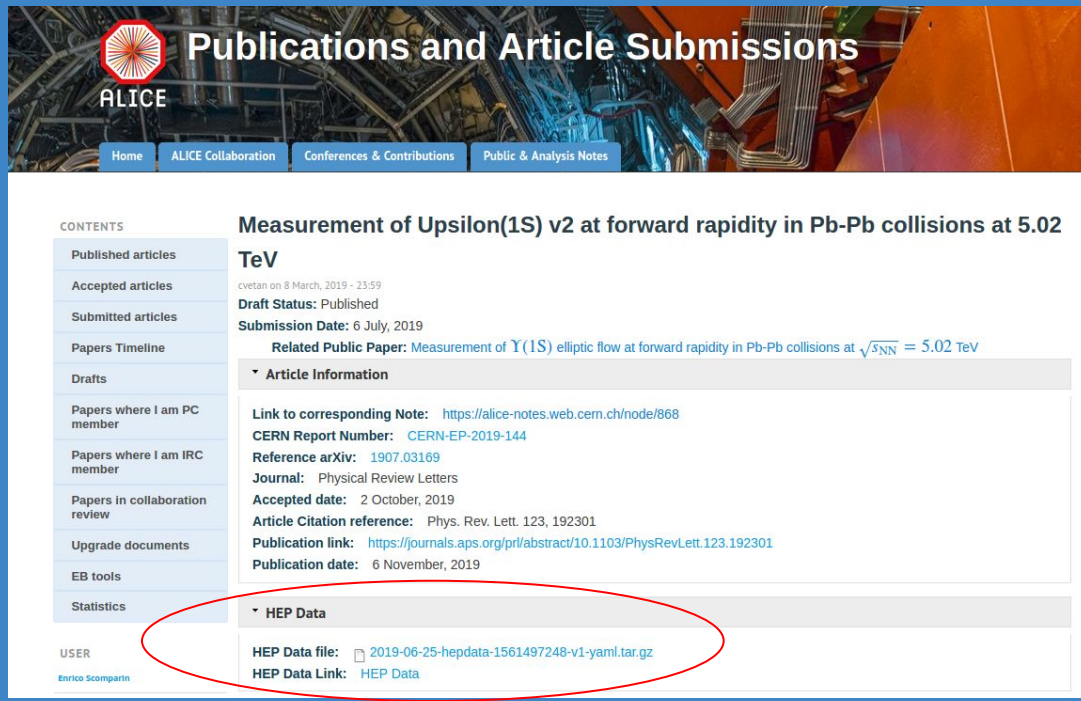
ALICE procedures

- ❑ Preparation of the HEPData record (YAML format) is a **prerequisite for submission**
- ❑ The record is **prepared by the Paper Committee** in charge of the paper and numerical values are **checked by the Internal Review Committee**

Sandbox tool is internally used to check the record before it becomes public

A link to the **YAML** record is included immediately in the private internal webpage of the paper

A link to the **public HEPData record** is also included



Publications and Article Submissions

ALICE

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Measurements of Upsilon(1S) v2 at forward rapidity in Pb-Pb collisions at 5.02 TeV

cvetan on 8 March, 2019 - 23:59
Draft Status: Published
Submission Date: 6 July, 2019

Related Public Paper: Measurement of $\Upsilon(1S)$ elliptic flow at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

Article Information

Link to corresponding Note: <https://alice-notes.web.cern.ch/node/868>
CERN Report Number: CERN-EP-2019-144
Reference arXiv: 1907.03169
Journal: Physical Review Letters
Accepted date: 2 October, 2019
Article Citation reference: Phys. Rev. Lett. 123, 192301
Publication link: <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.123.192301>
Publication date: 6 November, 2019

HEP Data

HEP Data file: [2019-06-25-hepdata-1561497248-v1-yaml.tar.gz](#)
HEP Data Link: [HEP Data](#)

USER
Enrico Scapparin

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Measurement of $\Upsilon(1S)$ elliptic flow at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

The first measurement of the $\Upsilon(1S)$ elliptic flow coefficient (v_2) is performed at forward rapidity ($2.5 < y < 4$) in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ALICE detector at the LHC. The results are obtained with the scalar product method and are reported as a function of transverse momentum (p_T) up to 15 GeV/c in the 5-60% centrality interval. The measured $\Upsilon(1S)$ v_2 is consistent with zero and with the small positive values predicted by transport models within uncertainties. The v_2 coefficient in $2 < p_T < 15$ GeV/c is lower than that of inclusive J/ψ mesons in the same p_T interval by 2.6 standard deviations. These results, combined with earlier suppression measurements, are in agreement with a scenario in which the $\Upsilon(1S)$ production in Pb-Pb collisions at LHC energies is dominated by dissociation limited to the early stage of the collision whereas in the J/ψ case there is substantial experimental evidence of an additional regeneration component.

[Phys. Rev. Lett. 123, 192301](#)
HEP Data
e-Print: [arXiv:1907.02169](#) | PDF | inSPIRE
[CERN-EP-2019-144](#)
ALICE paper id: [5123](#) (internal)

▾ Figures

ALICE procedures

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The **link in the arXiv page** points to the public page of the paper which contains the link to the HEPData record

arXiv.org > nucl-ex > arXiv:1907.03169 Search... Help | Advanced

Nuclear Experiment

Measurement of $\Upsilon(1S)$ elliptic flow at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

ALICE Collaboration
(Submitted on 6 Jul 2019 (v1), last revised 9 Dec 2019 (this version, v3))

The first measurement of the $\Upsilon(1S)$ elliptic flow coefficient (v_2) is performed at forward rapidity ($2.5 < y < 4$) in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ALICE detector at the LHC. The results are obtained with the scalar product method and are reported as a function of transverse momentum (p_T) up to 15 GeV/c in the 5-60% centrality interval. The measured $\Upsilon(1S)$ v_2 is consistent with zero and with the small positive values predicted by transport models within uncertainties. The v_2 coefficient in $2 < p_T < 15$ GeV/c is lower than that of inclusive J/ψ mesons in the same p_T interval by 2.6 standard deviations. These results, combined with earlier suppression measurements, are in agreement with a scenario in which the $\Upsilon(1S)$ production in Pb-Pb collisions at LHC energies is dominated by dissociation limited to the early stage of the collision whereas in the J/ψ case there is substantial experimental evidence of an additional regeneration component.

Comments: 17 pages, 3 captioned figures, authors from page 12, published version, fixed MC predictions in Fig 2, figures at [this http URL](#)

Subjects: **Nuclear Experiment (nucl-ex)**; High Energy Physics - Experiment (hep-ex)

Journal reference: Phys. Rev. Lett. 123, 192301 (2019)

DOI: [10.1103/PhysRevLett.123.192301](https://doi.org/10.1103/PhysRevLett.123.192301)

Report number: CERN-EP-2019-144

Cite as: arXiv:1907.03169 [nucl-ex]
(or arXiv:1907.03169v3 [nucl-ex] for this version)

ALICE statistics

231 ALICE papers (out of 258 published papers) have a record available in the HEPData database



Papers may not have an HEPData record because

- Have as a result one (or a few) numerical values already reported in the paper
- Are of a technical nature, in this case the decision on preparing the record is left to the Paper Committee

Versioning

Possibility of versioning is not used very often, but is **helpful to add information** even after publication (example: new/extended binning for a given observable, that does not justify the publication of a follow-up paper)

Version 2 **Centrality and pseudorapidity dependence of the charged-particle multiplicity density in Xe-Xe collisions at $\sqrt{s_{NN}} = 5.44 \text{ TeV}$**

The ALICE collaboration Acharya, Shreyasi ; Torales - Acosta, Fernando ; Adamova, Dagmar ; *et al.*

Phys.Lett. B790 (2019) 35-48, 2019.

Inspire Record 1672756 DOI 10.17182/hepdata.88397

In this Letter, the ALICE Collaboration presents the first measurements of the charged-particle multiplicity density, $dN_{ch}/d\eta$, and total charged-particle multiplicity, N_{ch}^{tot} , in Xe-Xe collisions at a centre-of-mass energy per nucleon-nucleon pair of $\sqrt{s_{NN}} = 5.44 \text{ TeV}$. The measurements are performed as a function of collision centrality over a wide pseudorapidity range of $-3.5 < \eta < 5$. The values of $dN_{ch}/d\eta$ at mid-rapidity and N_{ch}^{tot} fo...

Version 2 modifications: The new version contains also the data for the 0-1-2-3-4-5% centrality classes of Pb-Pb at 5.02 TeV that were not published in the Pb-Pb paper

2/NPART*VSINPbPb [10.17182/hepdata.88397.v2/t5](https://doi.org/10.17182/hepdata.88397.v2/t5)

Data from Figure 3

<https://www.hepdata.net/record>



[JSON](#)

Values of $2/\langle N_{part} \rangle \langle dN_{ch}/d\eta \rangle$ and $2/\langle N_{part} \rangle N_{ch}^{tot}$ as a function of $\langle N_{part} \rangle$ in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$.

Uncertainties

It would be useful for both debugging purposes and also on the final record to have the possibility of **plotting the relative errors for a given set of data**

Prompt D0 without vertexing analysis, Figure 6 [10.17182/hepdata.93013.v1/t1](https://doi.org/10.17182/hepdata.93013.v1/t1)

<https://www.hepdata.net/record>   [JSON](#)

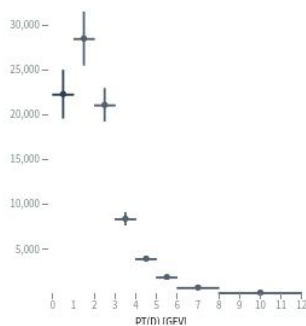
Data from Figure 6, right panel

p_T differential cross section of prompt D0 mesons obtained from the analysis without vertexing reconstruction in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV.

BR(D0) 3.89 ± 0.04 % RE P PB → SQRT(S)/NUCLEON 5020.0 YRAP(RF=CM)(D) -0.96 TO 0.04 observables SIG

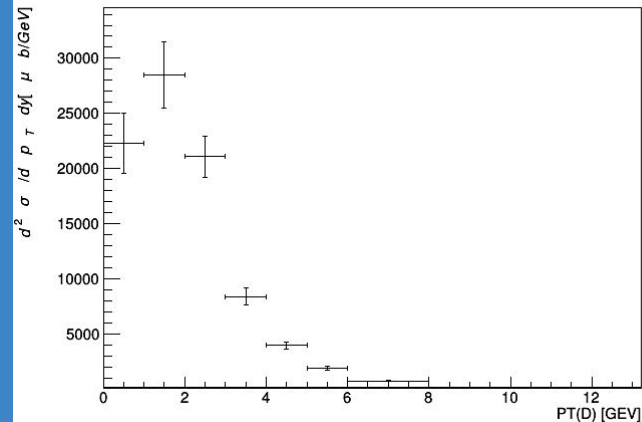
RE	P PB → D0(Q=PROMPT) X
SQRT(S)/NUCLEON	5020.0 GEV
YRAP(RF=CM)(D)	-0.96 TO 0.04
PT(D) [GEV]	$d^2\sigma/dp_T dy$ [$\mu\text{b}/\text{GeV}$]
0.0 - 1.0	22300.0 ±2.23e+03 stat $^{+1.28e+03}_{-1.31e+03}$ sys ±1.0% sys, uncertainty on branching ratio +1 more error Show all
1.0 - 2.0	28500.0 ±2.26e+03 stat $^{+1.65e+03}_{-1.69e+03}$ sys ±1.0% sys, uncertainty on branching ratio +1 more error Show all
2.0 - 3.0	21100.0 ±1.16e+03 stat $^{+1.23e+03}_{-1.17e+03}$ sys ±1.0% sys, uncertainty on branching ratio +1 more error Show all
3.0 - 4.0	8410.0 ±4.88e+02 stat $^{+4.96e+02}_{-5.14e+02}$ sys ±1.0% sys, uncertainty on branching ratio +1 more error Show all

Visualize



Sum errors Log Scale (Y)

doi:10.17182/hepdata.93013.v1/t1



Graph

