

Hard-soft correlations in hadronic collisions - GDR QCD

Rapport sur les contributions

Hard-soft correla ... / Rapport sur les contributions

Welcoming and introduction

ID de Contribution: 1

Type: Non spécifié

Welcoming and introduction

lundi 23 juillet 2018 14:00 (10 minutes)

Orateur: PORTEBOEUF-HOUSSAIS, Sarah (LPC)

Hard-soft correla ... / Rapport sur les contributions

Hard-soft correlations in the EPOS ...

ID de Contribution: 2

Type: Non spécifié

Hard-soft correlations in the EPOS event generator

lundi 23 juillet 2018 15:30 (40 minutes)

Orateur: PIEROG, Tanguy (KIT, IKP)

Hard-soft correla ... / Rapport sur les contributions

Soft particle production in differen ...

ID de Contribution: 3

Type: Non spécifié

Soft particle production in different multiplicity environments

mardi 24 juillet 2018 14:40 (40 minutes)

Orateur: BIANCHI, Livio (INFN Torino - Universita' di Torino)

Effects of saturation in high-multiplicity pp collisions

lundi 23 juillet 2018 14:10 (40 minutes)

Parton distributions in the protons colliding with multiplicity much higher than the mean value, are biased to higher parton densities, leading to enhanced effects of saturation. This and the effect of mutual boosting of the saturation scales significantly increase the gluon density at small x, and correspondingly the production rate of J/psi and pT broadening, in a good accord with data.

Orateur: KOPELIOVITCH, Boris

Hard-soft correla ... / Rapport sur les contributions

Charmonium production versus m ...

ID de Contribution: 5

Type: Non spécifié

Charmonium production versus multiplicity in PYTHIA8

lundi 23 juillet 2018 16:40 (40 minutes)

Orateur: WEBER, Steffen

Open charm production in dense hadronic environnement

mardi 24 juillet 2018 15:50 (40 minutes)

The production of open-heavy flavours in pp and p–nucleus collisions as a function of the charged-particle multiplicity ($dN_{ch}/d\eta$) can give insight into multiple parton interactions and into the interplay between hard and soft processes. Moreover, the comparison of the production of charmed mesons with and without strange-quark content and the baryon-to-meson ratio can help to study collective-like effects that in recent years have been observed in high multiplicity pp and p–nucleus collisions. These effects are typical of nucleus–nucleus collisions in which a Quark-Gluon Plasma with high-energy density is formed. This state produces a system with dense hadronic environment. It is interesting to investigate heavy-ion typical phenomena in the heavy-flavour sector across collisions systems as a function of the event activity, and, vice versa, to study in detail the coupling of heavy quarks to the "bulk" in heavy-ion collisions. Indeed, the measurement of the production of open heavy-flavour hadrons in nucleus–nucleus collisions can provide important information about the microscopic interactions of heavy quarks with the medium constituents. In particular, the measurement of the azimuthal anisotropies at low transverse momentum, quantified by the elliptic flow v_2 , gives insight into the participation of the heavy quarks in the collective expansion of the system and their possible thermalisation in the medium. Additional insight into the dynamics of the heavy quarks can be provided by the application of the event-shape engineering (ESE) technique to the D-meson v_2 . Measuring the D-meson v_2 in classes of events defined on the basis of the average flow in a given centrality class allows us to evaluate the correlation between the elliptic flow of soft hadrons and D mesons.

In this talk, the latest results on the production of open-heavy flavour production, including the ratio between the production of D+s and non-strange D mesons, as a function of $dN_{ch}/d\eta$ in pp, p–Pb and Pb–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE will be presented. The enhancement of the relative abundance of $\Lambda+c$ baryons compared to D mesons in pp and p–Pb collisions with respect to that measured in $+-\sqrt{s}$

e e collisions will be discussed. Finally, the first application of the ESE technique to the measurement of the D-meson v_2 in Pb–Pb collisions at $s_{NN} = 5.02$ TeV with ALICE will be also presented.

Orateur: GROSA, Fabrizio

Hard-soft correla ... / Rapport sur les contributions

Correlations between low-pt Z bos ...

ID de Contribution: 7

Type: **Non spécifié**

Correlations between low-pt Z bosons and soft gluons in p+p and p+A collisions

lundi 23 juillet 2018 18:00 (40 minutes)

Orateur: MARQUET, Cyrille (CPHT - Ecole Polytechnique)

Hard-soft correla ... / Rapport sur les contributions

Heavy-flavour with charged- ...

ID de Contribution: **8**

Type: **Non spécifié**

Heavy-flavour with charged-particle correlations and collective effects in p-Pb collisions at $\sqrt{s_{\text{NN}}}= 5.02$ TeV with ALICE at the LHC

lundi 23 juillet 2018 17:20 (40 minutes)

Orateur: MAZZILLI, Marianna

Hard-soft correla ... / Rapport sur les contributions

TBA

ID de Contribution: **9**

Type: **Non spécifié**

TBA

Hard-soft correla ... / Rapport sur les contributions

TBA

ID de Contribution: **10**

Type: **Non spécifié**

TBA

Hard-soft correla ... / Rapport sur les contributions

Proton structure via double parton ...

ID de Contribution: **11**

Type: **Non spécifié**

Proton structure via double parton scattering

mardi 24 juillet 2018 09:00 (40 minutes)

Orateur: RINALDI, Matteo

Hard-soft correlations with LHCb

mardi 24 juillet 2018 09:40 (40 minutes)

Orateur: WINN, Michael

Hard-soft correla ... / Rapport sur les contributions

Transverse geometry and hard-soft ...

ID de Contribution: **13**

Type: **Non spécifié**

Transverse geometry and hard-soft correlations in high-energy pp collisions

mardi 24 juillet 2018 10:50 (40 minutes)

Orateur: WEISS, Christian

Hard-soft correla ... / Rapport sur les contributions

J/Psi production in pp and pPb

ID de Contribution: **14**

Type: **Non spécifié**

J/Psi production in pp and pPb

mardi 24 juillet 2018 11:30 (40 minutes)

Orateur: CRKOVSKA, Jana (IPN Orsay)

Hard-soft correla ... / Rapport sur les contributions

Probing gluon nPDF with heavy q ...

ID de Contribution: **15**

Type: **Non spécifié**

Probing gluon nPDF with heavy quarkonium

mardi 24 juillet 2018 14:00 (40 minutes)

Orateur: SHAO, Hua-Sheng (CERN)

Hard-soft correla ... / Rapport sur les contributions

Hard-soft correlations with the MFT

ID de Contribution: **16**

Type: **Non spécifié**

Hard-soft correlations with the MFT

lundi 23 juillet 2018 14:50 (40 minutes)

Orateur: URAS, Antonio (IPNL Lyon)

Hard-soft correla ... / Rapport sur les contributions

TBA

ID de Contribution: 17

Type: Non spécifié

TBA

Orateur: MOUTARDE, Hervé (CEA-IRFU-SPHN)

Hard-soft correla ... / Rapport sur les contributions

Closing discussion

ID de Contribution: **18**

Type: **Non spécifié**

Closing discussion

Hard-soft correla ... / Rapport sur les contributions

Round table : soft-hard correlation ...

ID de Contribution: **19**

Type: **Non spécifié**

Round table : soft-hard correlations in hadronic collisions, what's next ?

mardi 24 juillet 2018 16:30 (40 minutes)

Hard-soft correla ... / Rapport sur les contributions

Closing

ID de Contribution: **20**

Type: **Non spécifié**

Closing

mercredi 25 juillet 2018 11:20 (10 minutes)

Hard-soft correla ... / Rapport sur les contributions

TBA

ID de Contribution: **21**

Type: **Non spécifié**

TBA

Hard-soft correla ... / Rapport sur les contributions

Double parton scattering studies in ...

ID de Contribution: 22

Type: Non spécifié

Double parton scattering studies in associated quarkonium production at the LHC and Tevatron

mercredi 25 juillet 2018 09:00 (40 minutes)

Orateur: YAMANAKA, Nodoka (IPN Orsay, Paris-Sud U., CNRS-IN2P3)

ID de Contribution: **23**

Type: **Non spécifié**

AFTER@LHC

mercredi 25 juillet 2018 10:40 (40 minutes)

Orateur: LANSBERG, Jean-Philippe (IPNO - Paris-Sud U. - CNRS/IN2P3)

Hard soft correlations with CMS

mercredi 25 juillet 2018 09:40 (40 minutes)

Orateur: CHAPON, Émilien (SPP / Irfu / CEA Saclay)