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ALICE Grenoble working twiki

Links to ungoing projects from the ALICE Grenoble group

Contact : ALICE_PHYS-L@lpscNOSPAMPLEASE.in2p3.fr mailing list

NEW EMCal L1 trigger project twiki

Data @ LPSC

- DataLPSC

L1 trigger

software

description

summary of what has been done, is being done, todo

link to the project area

Rates and efficiency

Description

- Estimate the best patch size and threshold given the trigger rates limits and efficiency optimization

Summary

- *summary of what has been done, is being done, todo*

link to the project area

- Progress is being documented here [EMCalL1Trigger](#)
- [trigger twiki 2011 for PbPb link](#)

QA

Description

- Validate the trigger offline (and online)
 - ◆ clusters
 - ◆ jets

Summary

- *summary of what has been done, is being done, todo*
- **Brainstorming on plots** : first draft of plots based on [AliESDCaloTrigger](#) (talk QA 07072011)

link to the project area

- Progress is being documented here [EMCalL1TriggerQA](#)
- [calib 2012](#)

Calibration

description

summary of what has been done, is being done, todo

link to the project area

Analysis

Pi0

description

summary of what has been done, is being done, todo

link to the project area

- [Pi0CaloAnalysis](#)

Photon

description

summary of what has been done, is being done, todo

link to the project area

- progress is being documented here [PhotonAnalysisGrenoble](#)
- Analysis correlation
 - ◆ Analysis description : official twiki
 - ◇ discussions here
 - ◆ Task list here
 - ◆ tentative de task here (obsolete)

Jets

description

summary of what has been done, is being done, todo

link to the project area

Group meeting

links to agenda and presentations

- agenda and minutes
- Etudiants Stagiaires 2012-2013

Stagiaires 2019-2020

Presentations Louis et Antoine :

Biblio

arxiv links, presentations, or other interesting sources

General

- Presentation d'ALICE sur le site du labo : [ici](#)
- EMCAL TDR (technical design report) [link](#) or [direct link](#) : calorimeter information
- EMCAL PPR (Physics Performance Report) [new link](#) : physics accessible with the EMCAL (2008 simulation)
- EMCAL beam test NIM paper [link](#)
- ALICE PPR : [link](#)
- EMCAL basics : [link](#)
- Physics forum Jan 2012 [link](#) : summary of status PWG analysis

- How EMCAL works
- Shower Shape old paper

Analysis

Pi0 et Photon, Correlations

- **Thesis**
 - ◆ Gustavo Conesa [link](#) *Identification de particules et de processus durs dans le spectromètre PHOS de l'expérience ALICE*
 - ◆ Raphaëlle Ichou [link](#) *Étude de la production de photons isolés en collisions proton-proton avec le calorimètre EMCAL de l'expérience ALICE au LHC*
 - ◆ Yaxian Mao [link](#) *Particle correlation*
 - ◆ Nicolas Arbor [link](#) *Etude de la fragmentation des partons par la mesure de corrélations photon-hadron auprès de l'expérience ALICE au LHC*
- **Analysis note**
 - ◆ particle correlation analysis note
- **Talks et proceedings**
 - ◆ QM2012 AN correlation [link](#)
 - ◆ QM2012 correlation [link](#)

- ◆ proceedings N. arbor [↗](#)
- ◆ Direct link proceedings N. Arbor QM-2012 [↗](#)
- ◆ Direct link proceedings N. Arbor LHCP-2013 [↗](#)
- **Articles**
 - ◆ pi0 p-p paper [↗](#)
- PWG GA
 - ◆ orga : plan for 2012 [↗](#)
 - ◆ twiki
 - ◆ Photon correlations twiki : link
- **Twiki** Conversion Gamma link
- **Relevant papers**
 - ◆ CMS results Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV, CMS [↗](#)
 - ◆ Event-mixing for 2-particle correlations CERN Physics Club 20 December 2013 [↗](#)
 - ◆ Shower Shape old paper

Jet

- **Thesis**
 - ◆ Guenole Bourdaud link [↗](#) *La Physique des gamma-jets avec le calorimètre EMCal de l'expérience ALICE au LHC*
- PWG_JE plans for 2012 [↗](#)

Saveurs lourdes :

- **RAA et v_2 , transport coeffs :**
 - ◆ *Resolving discrepancies in the estimation of heavy quark transport coefficients in relativistic heavy-ion collisions* ; Yingru Xu (Duke U.) et al.. Sep 27, 2018. 15 pp. **Phys.Rev. C99 (2019) no.1, 014902** DOI: 10.1103/PhysRevC.99.014902 **arXiv:1809.10734** [nucl-th]
- **Dead cone effect :**
 - ◆ HDR Julien refs 194 (2001), 195 (2004), 196 (2009).
 - ◆ *Soft gluon emission off a heavy quark revisited* ; Raktim Abir (Saha Inst.), Carsten Greiner (Frankfurt U.), Mauricio Martinez (Santiago de Compostela U., IGFAE), Munshi G. Mustafa (Saha Inst.), Jan Uphoff (Frankfurt U.). Sep 2011. 4 pp. **Phys.Rev. D85 (2012) 054012** DOI: 10.1103/PhysRevD.85.054012 **arXiv:1109.5539** [hep-ph]
 - ◆ *Soft Gluon Radiation off Heavy Quarks beyond Eikonal Approximation* ; Trambak Bhattacharyya (UCT-CERN Res. Ctr.), Surasree Mazumder (Rio de Janeiro Federal U.), Raktim Abir (Aligarh Muslim U.). Sep 27, 2016. 16 pp. **Adv.High Energy Phys. 2016 (2016) 1298986** DOI: 10.1155/2016/1298986 **arXiv:1307.6931** [hep-ph]
 - ◆ *Exposing the dead cone effect with jet substructure techniques* ; Fabio Maltoni, Michele Selvaggi (Louvain U., CP3), Jesse Thaler (MIT, Cambridge, CTP). Jun 10, 2016. 13 pp. **Phys.Rev. D94 (2016) no.5, 054015** DOI: 10.1103/PhysRevD.94.054015 **arXiv:1606.03449** [hep-ph]
- **Correlations photon - heavy quark :**
 - ◆ HDR Julien refs 201 (2011) et 202 (2013)
- **Correlations entre heavy quarks :**
 - ◆ HDR Julien refs 197 (2014) et 200 (2013).
 - ◆ *Constraining in-medium heavy-quark energy-loss mechanisms via angular correlations between heavy and light mesons* ; Martin Rohrmoser, Pol Bernard Gossiaux, Thierry Gousset, Jörg Aichelin (SUBATECH, Nantes). Nov 6, 2016. 4 pp. **J.Phys.Conf.Ser. 779 (2017) no.1, 012032** DOI: 10.1088/1742-6596/779/1/012032 Conference: C16-06-27.8 Proceedings **arXiv:1611.01854** [hep-ph]
 - ◆ *Heavy-flavor production and medium properties in high-energy nuclear collisions - What next?* G. Aarts (Swansea U.) et al.. Dec 23, 2016. 23 pp. **Eur.Phys.J. A53 (2017) no.5, 93**

DOI: 10.1140/epja/i2017-12282-9 Conference: C16-10-10.3 **arXiv:1612.08032** [nucl-th]

- ◆ *Extraction of Heavy-Flavor Transport Coefficients in QCD Matter* R. Rapp (ed.) (Texas A-M & Texas A-M, Cyclotron Inst.) et al.. Mar 10, 2018. 66 pp. **Nucl.Phys. A979 (2018) 21-86**
DOI: 10.1016/j.nuclphysa.2018.09.002 **arXiv:1803.03824** [nucl-th]
- ◆ *Toward the determination of heavy-quark transport coefficients in quark-gluon plasma*
Shanshan Cao (Wayne State U., Detroit) et al.. Sep 20, 2018. 18 pp. **Phys.Rev. C99 (2019) no.5, 054907** DOI: 10.1103/PhysRevC.99.054907 **arXiv:1809.07894** [nucl-th]

Physics topics at runs III-IV :

- *Future physics opportunities for high-density QCD at the LHC with heavy-ion and proton beams ; Z. Citron (Ben Gurion U. of Negev) et al.. Dec 17, 2018. 207 pp. CERN-LPCC-2018-07 Conference: C18-06-18.8* **arXiv:1812.06772** [hep-ph]

Stagiaires

2014

- AstridLogbook

2013

- StageStefano
- StageAlbanFF
- StageAlban QA
- ReunionsHebdomadairesStagiaires2013

- les rapports des M1 en stage chez nous en 2012 article Mavel, article Virot
- et du M2 en stage en 2012 rapport Firas

- Et un lien vers ROOT root [↗](#)

Miscellaneous

- LBNL twiki link [↗](#)
- ALICE USA link [↗](#)

-- CatherineSilvestre - 19-Jul-2011

This topic: Main > AliceGrenoble

Topic revision: r43 - 2020-04-06 - JulienFaivre



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