GDR-InF AGENDA 2020

- Axions++ : Axions And Other Light Particles , LPSC Grenoble , 5th-7th May, 2020 (Diego)
- Baryonic asymmetry of the universe, Grenoble (Guillaume/Stephanie)
- Baryons workshop, 14/15 May 2020 in Orsay (Yasmine)
- Polarization: from ee to PbPb collisions (Winn/Kou)
- g-2 workshop? History, experiments and theory at a large (?)
- Lectures on detector techniques (Exp)
- Lectures on "Group theory for flavour model-builders" (Diego) or Lattice QCD (Jérôme)? (Th)
- Lectures: EFT I/SCET II (Joint Exp-Th)
- Top LHC? Exchange speakers with other groups?
- Annual workshop (all)

AXIONS++

Full description here:

https://indico.cern.ch/event/804538/overview

Support from the ERC nEDM, from the CPTGA and from the IDEX Université Grenoble Alpes "Initiatives de recherche stratégiques" pragma-Higgs.

3000 euros requested to GDR

BARYONIC ASYMMETRY OF THE UNIVERSE

Content:

- theory of the baryogenesis (there are two groups at least in France)
- direct measurement of anti-matter in the universe (new results from AMS)
- measurement of the baryonic asymmetry itself (PLANK)
- CP violation with LHCb
- neutron EDM

BARYONS

14/15 May 2020 in Orsay
Some funding from P2IO (1000)? Request to GDR?
Organising committee:: Danny van Dyk, Sébastien Descotes Genon, Carla Marin Benito, Yasmine Amhis Wanted to advertise it in December. Done?

QED effects in LU tests + Predictions. Lattice Lambda(1520) Stephan Meinel. LCSR FF Lambda(1520) Danny + Sebastien. 3/2, $\frac{1}{2}$ separation in angular analyses. Lambda decay asymmetry BES III. Radiative Marzia NLO computation of photon polarisation. What about Lb \rightarrow p pi mm. Radiative Lb \rightarrow p pi gamma. Other b-baryon states. Pentaquarks and Exotics contributions. Production fraction, for absolute branching fraction. What about the lifetimes ? is this a closed topic? Estimation of charm-loop contributions Prospects for the various modes at LHCb Lepton flavour universality violation

POLARIZATION: from ee to PbPb collisions

5000k requested

ANNUAL WORKSHOP

- Anticipate? (JUNE/JULY)?
- Suggest to invite IN2P3/INP representatives
- Should we discuss projects? (ANR/ERC/....)

Feedback from Conseil de Groupement

Fix the annual meeting date earlier (Diego: early September?/OL: many events in Sept/Oct/Nov). Maybe we should pay for the train

Need to develop the more exotic physics (e.g. axions/light BSM) part of GDR

Suggestions from Marie-Helene: 1) Link between Babar analyses/ISR and g-2, talk about possible measurements and theory 2) Calorimeters, are they necessary beyond differentiating e and mu?

Need to find a way to bring the GDR-InF theorists together in France (Nazila)