

INTENSITY

frontier

GDR-InF

<http://gdrintensityfrontier.in2p3.fr/>

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Conveners meeting
01 october 2024



- Jacopo Cerasoli finished his contract and stepped down from “Rare, radiative and semi-leptonic B decays; Charm and Kaon Physics” WG
- Should we look for a replacement or the 3 remaining conveners Christina Agapopoulou, Nazila Mahmoudi, Olcyr Sumensari are enough

- European Strategy of Particle physics rapidly approaching
- IN2P3 will provide contribution summarising general input of the particle physics community in France (experiments and labs free to contribute their own)
- GDR-InF will write the intensity frontier part like it did in 2018 (<http://gdrintensityfrontier.in2p3.fr/GDR-InF-ESPP.pdf>)
- Bottom-up approach: contributions collected on <https://esppu.in2p3.fr>
- Dedicated session at GDR-InF annual meeting on Wednesday afternoon

Annual meeting

- Cabourg 6-8 Novembre
- 4 half-days
- First afternoon at GANIL + lab visit then bus to the venue
- Just after workshop on V_{ud} and precision measurements



Annual meeting program

- Wednesday afternoon: 4 hours for ESPPU + GANIL visit (still room for something else?)
- Thursday - Friday: 9.5 hours → room for ~19 talks

Proposed talks

Name	Title of the talk
Damir Becirevic	Accommodating the measured $R(D^{(*)})$ and $R(B \rightarrow K \nu \nu)$ in a single (scalar) leptoquark scenario
Fionn Bishop	Radiative decays of Bs mesons at LHCb
Théo Brugeat	Baryonic Axion in the neutron-antineutron oscillation
Quentin Buat	PIONEER, a next generation rare pion decay
Marie Hartmann	Angular Analysis of $B_0 \rightarrow K^* e e$ at low q^2 with the LHCb detector.
Chandiprasad Kar	Study of B_0 to ρ gamma using LHCb data
Marc Knecht	Theoretical issues concerning rare kaon decays
Luighi Leal	Correlating $0\nu\beta\beta$ decays and flavor observables in leptoquark models
Huchan Lee	One-loop dominated CLFV observables in an extended scotogenic model
Clotilde Lemettais	Search for LFV in $B \rightarrow K^* \tau e$ decays at Belle II
Katia MICHIELSEN	Quantum magnetometry for the search of the neutron electric dipole moment
Dayanand Mishra	Radiative inclusive B decays
Oscar Naviliat-Cuncic	Improved search for CP violation in ortho-Positronium decay
Salvador Rosauero-Alcaraz	Study of exclusive c to $s e \nu$ transitions
Corentin Santos	Calibration of the Flavour Tagger
Salvador Urrea González	Improving the Global SMEFT Picture with Neutrino Oscillations
Sylvain Vanneste	An end-to-end simulation framework for the neutron lifetime experiment tauSPECT
Guy WORMSER	LFUV tests in LHCb using semitauonic decays
Isaac-Paul Consigny	
Katia Michielsen	
Stéphanie Roccia	Hi, I could give a talk if needed
Marie-Helene Schune	If needed I can present the new result ob photon polarization with $B_s \rightarrow \Phi e e$ (but only if you need to fill a slot).

Proposed topics for discussion

Name	Topic for discussion
Damir Becirevic	
Fionn Bishop	
Théo Brugeat	
Quentin Buat	Possible French contributions to PIONEER
Marie Hartmann	
Chandiprasad Kar	
Marc Knecht	
Luighi Leal	
Huchan Lee	Model building, flavor physics, neutrino physics
Clotilde Lemettais	
Katia MICHIELSEN	
Dayanand Mishra	Hadronic Matrix Elements
Oscar Naviliat-Cuncic	
Salvador Rosauro-Alcaraz	
Corentin Santos	
Salvador Urrea González	
Sylvain Vanneste	Ultra cold neutrons
Guy WORMSER	Search for NP with B semileptonic decays
Isaac-Paul Consigny	
Katia Michielsen	
Stéphanie Roccia	
Marie-Helene Schune	