

Welcome to the

INTENSITY

frontier

GDR-InF

Annual Workshop 2021

LPNHE Paris

15-17 November 2021

Aoife Bharucha & Francesco Polci

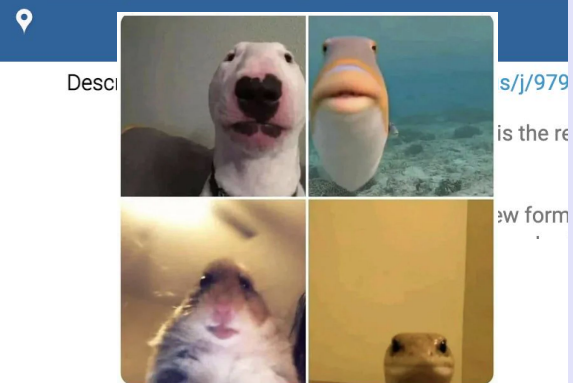
<http://gdrintensityfrontier.in2p3.fr/>

Welcome to the 5th GDR-InF general meeting!



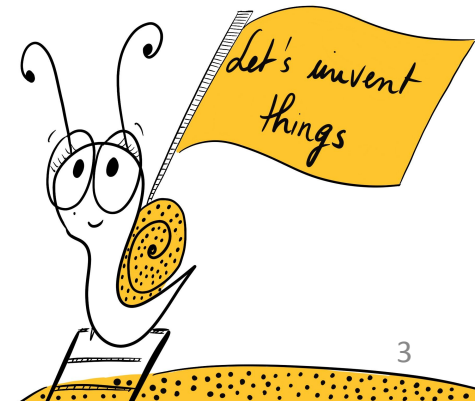
GDR-InF annual workshop

28 sept. 2020 à 09:45 → 16 oct. 2020 à 14:00



A reminder of GDR-InF goals for newcomers

- Reinforce relations between **theory and experiment**
- Facilitate **collaborations between labs**
- Favour the emergence of **common projects**
- Provide **visibility** for the French intensity frontier community
- Promote the **young generation** of physicists working in the field
- Discuss the **future experiments probing the intensity frontier**



Your GDR-InF conveners



CP violation:

Christopher Smith, Jean-Francois Marchand, Stephanie Roccia

Rare, radiative and semi-leptonic B decays, Charm and Kaon Physics:

Diego Guadagnoli, Giulio Dujany, Justine Serrano

Heavy flavour production and spectroscopy:

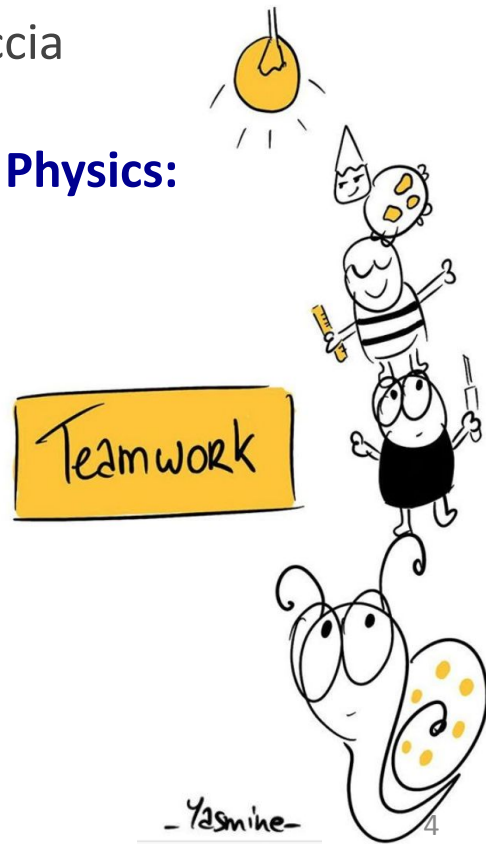
Benjamin Audurier, Emi Kou

Interplay of quark and lepton flavour:

Ana Teixeira, Olcyr Sumensari, Yasmine Amhis

Future experiments:

Dorothea Vom Bruch, Mark Goodsell, Stephane Monteil



Community tools



- Website: <http://gdrintensityfrontier.in2p3.fr/>
- Indico: <https://indico.in2p3.fr/category/731/>
- Mailing list: <https://listserv.in2p3.fr/cgi-bin/wa?A0=GDR-INTENSITYFRONTIER-L>
- Mattermost team:

https://mattermost.web.cern.ch/signup_user_complete/?id=3ji4se88hbnsppas5yazz4p8y

In the “town square” of the mattermost team we can exchange news and informations.

There you can advertise, for example, your thesis defense, your latest article published, a recent article that you find interesting for the community, a position opening in your team, etc....whatever might be of interest for the GDR-InF members!

Specific channel can be used for dedicated discussions (ex: hands-on projects channels)

Please join and do not hesitate to use these tools!!!

The annual meeting 2021

The menu:

- ❖ Two seminars:
 - Dark sector searches in flavor experiments (by Laura Zani)
 - Review on $b \rightarrow s \ell \ell$ (by Darius Faroughy)
- ❖ Sessions covering current ongoing and perspectives
 - Strong CPV, axions, EDM
 - b -anomalies
 - Leptons
 - Future experiments
 - Heavy-flavor production, spectroscopy and gamma measurement
- ❖ Kick-off of “hands-on” projects

*Thanks to our
convenors for
the
organization!*

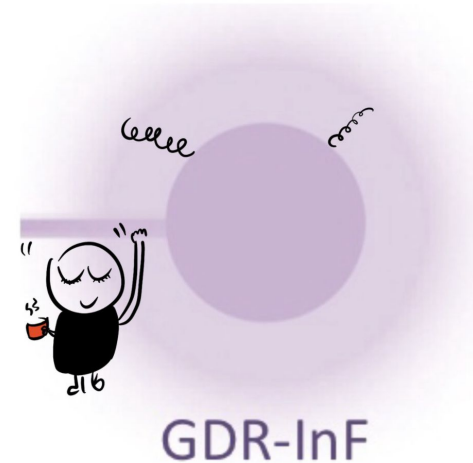


*Keep the talks within allocated time, feel free to ask questions!
Give the speakers the chance to catch your attention!!!*

Social moments

- ❖ Long coffee breaks to keep discussions ongoing
- ❖ Dinner on Monday evening at “Le buisson Ardent”
- ❖ Groupe picture before lunch on Tuesday
- ❖ Buffet lunch on Tuesday
- ❖ Dinner on Tuesday evening at “L’escarmouche”

(for this, mandatory to make the vegetarian choice by 4PM in the doodle)



*Get knowing your colleagues, enjoy the food,
keep discussions ongoing, have fun together!*

Policies for a nice hybrid meeting

Give the speakers the chance to catch your attention!!!

- Two chairs, one on zoom, one in the room, will ensure the interaction.
- People on zoom are encouraged (but not obliged) to turn their video on when speaking.
- Raise your hand to ask a question, in the room and on zoom. Eventually, ask in the chat.
- Give prompt feedback if something is not working properly
- Feel free to keep discussions ongoing on mattermost.

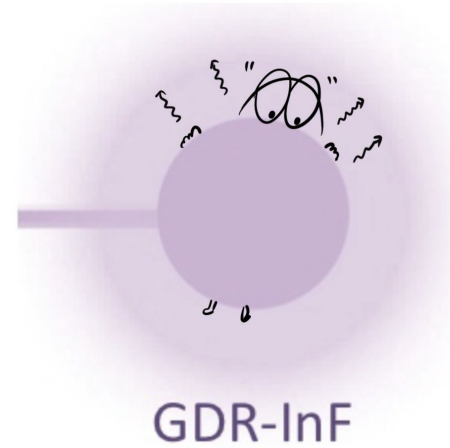


Sanitary requirements



- Come only if in complete absence of symptoms similar to covid
- Masks are mandatory all the time
- Clean frequently your hands
- The badge show that the sanitary pass has been checked.

Wear it all along the meeting, so that we do not need to keep checking your pa:



These simple rules allow us to have a meeting in presence and in safe conditions in the interest of everybody.

Thanks for your understanding.

The GDR-InF is officially renewed!



Groupement de Recherche: Intensity Frontier (GDR-InF)

Report and proposal for renewal

May 17, 2021

Asmaa Abada¹, Ziad Ajaltouni¹², Yasmine Amhis⁴, Elie Aslanides¹, Vladislav Balagura¹¹, Alberto Baldissari³, Gilles Ban¹³, Sergey Barsuk⁴, Nicole Bastid¹², Jérôme Baudot⁶, Eli Ben-Haim¹⁵, Karim Benakli¹¹, Véronique Bernard⁴, Aofe Bharucha¹², Benoît Blossier⁴, Jérôme Charles⁸, Matthew Charles¹⁵, Jacques Chauveau¹⁵, Maximilien Chefdeville⁹, Benoît Clément¹⁶, Joao Coelho⁴, Julien Cogan¹, Eric Cogan¹², Philippe Crochet¹², Raffaele D'Agnolo⁷, Wilfrid Da Silva¹⁵, Sacha Davidson¹⁵, Aldo Deandrea¹, Daniel Decamp⁹, Luigi Del Buono¹⁰, Cédric Delaunay¹⁰, Olivier Deschamps¹², Sébastien Descotes-Genon⁴, Giulio Dujany⁸, Adam Falkowski¹, Pierre Fayet¹⁴, Christian Finck⁴, Frederic Fleuret¹, Michele Frigerio⁸, Benjamin Fuks¹⁷, Antoine Gérardin⁷, Vava Gligorov¹⁵, Mark Goodsell¹⁷, Andreas Goudelis¹², Diego Guadagnoli¹⁰, Björn Herrmann¹⁰, Fabrice Hubaut¹, Marc Knecht², Emi Kou⁴, Witek Krasny¹⁵, Stéphane Lavignac¹, Renaud Le Gac¹, François Le Diberder⁴, Régis Lefèvre¹², Thomas Lefort¹³, Laurent Lellouch⁷, Olivier Leroy¹, Frédéric Machefert⁴, Farvah Mahmoudi¹, Giampiero Mancinelli¹, Mariane Mangin-Brinet¹⁶, Jean-François Marchand⁹, Aurélien Martens¹, Kilian Martineau⁷, Emile Maurice¹, Marie-Noëlle Minard¹², Stéphane Monteil¹², Vincent Moréna¹⁰, Bachir Moussaïm¹, Oscar Naviliat-Cuncic¹³, Jean Orloff¹², Stefano Panebianco⁹, Pascal Perrais¹², Bolek Pietrzyk¹, Guillaume Pipron¹⁶, Francesco Polci¹⁵, Anton Poluektov¹, Sarah Porteboeuf¹², Pascal Pralavorio¹, Jérémie Quevillon¹⁶, Dominique Rebyeund¹⁶, Jean-Marc Richard⁵, Isabelle Ripp-Baudot⁶, Patrick Robbe⁴, Stéphanie Roccia¹⁶, Filippo Sala¹⁷, Marie-Hélène Schune⁴, Justine Serrano¹, Christopher Smith¹⁶, Achille Stocchi⁴, Olcyr Sumensari¹, Stéphane T'Jampens⁸, Ana Teixeira¹², Vincent Tisserand¹², Karim Trabelsi¹, Ubijana Van Kolck⁴, Pascal Vincent¹⁵, Dorothea Vom Bruch¹, Michael Winn¹, Guy Wormser⁴, Savvas Zafeiropoulos⁴, Fabian Zomer⁴

and (current members of the GDR-InF holding non-permanent positions)

Hossein Afsharnia¹², Christina Agapopoulou¹⁵, Benjamin Audurier¹¹, Thomas Bouillaud¹⁶, Amine Boussejra⁵, Carlo Branchina¹⁷, Lukas Caldeice¹⁵, Alexandre Carvunis¹⁰, Vlad Dedu¹, Gaetano Demarino¹¹, Anthony Downes⁸, Sevdia Emen¹⁰, Tristan Fillingier⁶, Marianna Fontana¹⁰, Thomas Grammatico¹⁵, Jana Gunther², Vuong Hoa¹⁶, Florentin Jaffredo⁴, Boris Knysh¹¹, Klemens Lautenbach¹, Robin Lebouche⁴, Lucas Martel⁴, Rhea Moutafis¹⁷, Sophie Mutz¹², Siavash Neshatpour⁵, Jan Neundorff⁴, Elisabeth Niel¹¹, Camille Normand¹⁰, Martin Novoa Brunet⁴, Letizia Parato⁷, Gioacchino Piazza¹, Resmi PK¹, Güney Polat¹, Renato Quagliani¹, Raoul Rabadani¹, William Saez¹², Halime Sakak¹², Alessandro Scarabotto¹⁵, Luis Shima Lanza¹¹, Luis Soares Lavra¹¹, Ksenia Sivirina¹², Gregoire Uhlich¹, Lukas Varnhorst², Willem Verplanke¹², Vidya Vobilisetti¹¹, Felicia Völle¹¹, Laura Zani¹, Valeria Zhovkova¹¹

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²Centre de Physique Théorique (CPT), Marseille

³Département de Physique Nucléaire (DPN), CEA-IRFU Saclay

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⁵Institut de Physique des 2 Infinis de Lyon (IP2I), Lyon

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¹¹Laboratoire Leprince-Ringuet (LLR), Palaiseau

¹²Laboratoire de Physique de Clermont (LPC), Clermont-Ferrand

¹³Laboratoire de Physique Corpusculaire de Clermont (LPC), Clermont

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¹⁵Laboratoire de Physique Nucléaire et des Hautes Energies (LPNHE), Paris

¹⁶Laboratoire de Physique Subatomique et Cosmologie (LPS), Grenoble

¹⁷Laboratoire de Physique Théorique et Hautes Energies (LPTHE), Paris

¹⁸Laboratoire Univers et Particules de Montpellier (LUPM), Montpellier

- Five more years to go!
- Thanks to all those who contributed to the redaction of the renewal document.
- The “Conseil de groupement” has proposed Giulio Dujany and Diego Guadagnoli as next GDR-InF coordinators
- The proposal has been ratified by IN2P3/INP.

Congratulations to

Giulio, Diego

and the whole GDR-InF!!!

NOW LET'S ENJOY OUR GDR-InF ANNUAL MEETING!



GDR-InF