

CONSEIL DE GROUPEMENT

10-12-2017

INTENSITY

frontier

GDR-InF

Aoife Bharucha - Francesco Polci

The GDR-InF Community

- **GDR-InF created on January 2017**
- **61** senior physicists
- 14 laboratories of IN2P3, INP, CEA
- Many students and postdocs
- New members welcome!

Allocated budget:
15000 euros per year

Asmaa Abada¹⁴, Ziad Ajaltouni¹¹, Yasmine Amhis¹⁰, Sergey Barsuk¹⁰, Nicole Bastid¹¹, Jerome Baudot⁷, Damir Becirevic¹⁴, Karim Benakli¹⁵, Eli Ben-Haim¹², Véronique Bernard⁴, Aoife Bharucha², Benoit Blossier¹⁴, Philippe Boucaud¹⁴, Jerome Charles², Matthew John Charles¹², Jacques Chauveau¹², Max Chefdeville⁸, Julien Cogan¹, Eric Cogneras¹¹, Philippe Crochet¹¹, Wilfrid Da Silva¹², Sascha Davidson⁵, Cedric Delaunay⁹, Luigi Del Buono¹², Olivier Deschamps¹¹, Sebastien Descotes-Genon¹⁴, Benjamin Fuks¹⁵, Vladimir Gligorov¹², Mark Goodsell¹⁵, Diego Guadagnoli⁹, Frederic Kapusta¹², Marc Knecht², Emi Kou¹⁰, Witek Krasny¹², Stephane Lavignac⁶, Francois Le Diberder¹⁰, Régis Lefèvre¹¹, Renaud Le Gac¹, Laurent Lellouch², Olivier Leroy¹, Frederic Machefert¹⁰, Giampiero Mancinelli¹, Mariane Mangine Brinet¹³, Nazila Farvah Mahmoudi³, Jean Francois Marchand⁸, Stephane Monteil¹¹, Vincent Morenas¹¹, Jean Orloff¹¹, Pascal Perret¹¹, Francesco Polci¹², Sarah Porteboeuf¹¹, Isabelle Ripp-Baudot⁷, Patrick Robbe¹⁰, Marie-Hélène Schune¹⁰, Justine Serrano¹, Christopher Smith¹³, Ana Teixeira¹¹, Vincent Tisserand⁸, Stephane T'Jampens⁸, Edwige Tournefier⁸, Guy Wormser¹⁰

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² Centre de Physique Théorique (CPT), Marseille;

³ Centre de Recherche Astrophysique de Lyon (CRAL), Lyon

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¹² Laboratoire de Physique Nucléaires et des Hautes Energies (LPNHE), Paris;

¹³ Laboratoire de Physique Subatomique et Cosmologie (LPSC), Grenoble

¹⁴ Laboratoire de Physique Théorique (LPT), Orsay

¹⁵ Laboratoire de Physique Théorique et Hautes Energies (LPTHE), Paris

LISTSERV.IN2P3.FR (1 List)

List Names ▲	Subscribers
GDR-INTENSITYFRONTIER-L [Configure]	82 [View]

The scope of the GDR-InF

Theory and experiment need to come together in order to interpret results, combine bounds from different searches

Goals:

- 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**

The GDR-InF has been presented few times this year:

- Kick-off meeting
- Belle 2 workshop at LAL
- GDR Terascale (mentioned)
- SHIP workshop
- CDU IN2P3 next Dec 14th

Conseil de groupement

- [Stephanie Roccia \(CSNSM\)](#)
- [Olivier Leroy \(CPPM\)](#)
- [Olivier Deschamps \(LPC\)](#)
- [Nazila Mahmoudi \(IPNL\)](#)
- [Stephane Lavignac \(IPhT, CEA\)](#)
- [Isabelle Ripp-Baudot \(IPHC\)](#)
- [Stephane T'Jampens \(LAPP\)](#)
- [Diego Guadagnoli \(LAPTh\)](#)
- [Marie-Helene Schune \(LAL\)](#)
- [Christopher Smith \(LPSC\)](#)
- [Sebastien Descotes-Genon \(LPT\)](#)
- [Mark Goodsell \(LPTHE\)](#)
- [Jérôme Charles \(CPT\)](#)



**1 meeting per year at least, during the general GDR-Inf meeting (exception this year).
Should we have more frequent meetings?**

Working Groups and Convenors

In role for 2,5 years

CP violation

[Christopher Smith](#), [Jean-Francois Marchand](#), [Stephanie Roccia](#)

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

[Yasmine Amhis](#), [Diego Guadagnoli](#)

(two WGs of the original proposal joined)

Heavy flavour production and spectroscopy

[Matthew Charles](#), [Emi Kou](#)

Interplay of quark and lepton flavour

[Ana Teixeira](#), [Justine Serrano](#)

Future experiments

[Mark Goodsell](#), [Stephane Monteil](#)

- **This year, 3 meetings with the conveners (and many interactions via emails)**
- **Minutes are available**

Some tools

- **Logo:** 

Decided after a nice contest.

*Please, **put the logo on the websites/indico pages** of events supported/organised by the GDR-InF.*

- **Mailing list:** GDR-INTENSITYFRONTIER-L@IN2P3.FR

At the moment still used in a limited way. Do not hesitate to use it to announce:

- *events of interest for the community*
- *jobs*
- *any other interesting topic for the GDR-InF community*

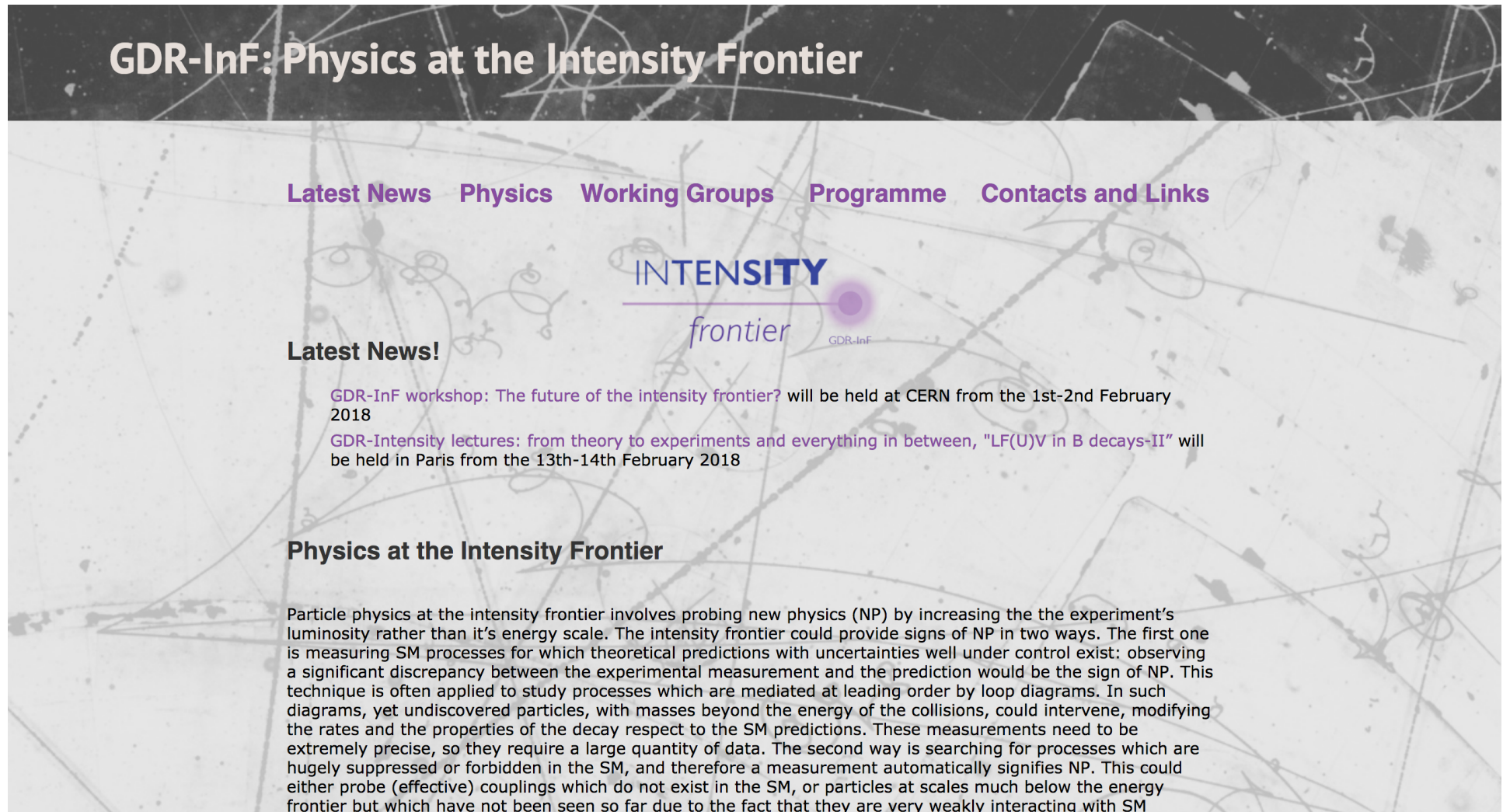
Please invite your (new) students/postdocs/group members to sign up!

- **Website:** <http://gdrintensityfrontier.in2p3.fr/>

Constantly updated, with latest news and links to previous and past events.

- **Dedicated indico area:** <https://indico.in2p3.fr/category/731/>

The website: how it looks like



Check it out and send us comments if you have!

The GDR-InF indico area



Accueil Créer un événement ▾ Mon profil

Home » IN2P3 » Laboratoires » GDR Intensity Frontier

GDR Intensity Frontier

Il y a 2 événements dans le futur. [Cacher](#)

février 2018

 13 févr. - 14 févr. [GDR-Intensity lectures: LF\(U\)V in rare meson decays](#)

 01 févr. - 02 févr. [GDR-InF workshop: The future of the intensity frontier? See <https://indico.cern.ch/event/686737/overview>](https://indico.cern.ch/event/686737/overview) (protégé)

décembre 2017

 11 déc. [Conseil de groupement](#) 

novembre 2017

 16 nov. [Reunion des conveners](#)

octobre 2017

 26 oct. - 27 oct. [GDR-Intensity lectures: LF\(U\)V in rare meson decays](#)

 03 oct. [Reunion des conveners](#)

juin 2017

 09 juin [Reunion des conveners](#)

mars 2017

 29 mars - 31 mars [Current Trends in Flavor Physics](#)

Meeting formats

It could be nice to establish recurrent formats:

- Dedicated to our need of bounding the community
- Easy to repeat as we acquire experience
- Complementary to traditional workshops/conferences



1) Intensity lectures.

2) Intensity brainstorming (?)

Following the model of the workshop on future experiment (white cards + roundtable)?

3) Topic workshops

Dedicated to effectively work on a specific subject/area (*don't need to be large events*)

4) Supported workshops

Not directly organized by GDR-InF, but of interest for our community

5) The general GDR meeting

To report on the activities, present the ongoing work in our community, hear from external speakers on topics/experiments on which we are not directly implied

6) Others?

Still keeping all doors open to any other useful proposal!

Summary of activities in 2017

Events organized by the GDR-InF:

- [GDR-InF Kickoff meeting](#),
Institut Henri Poincaré (Paris), March 29-31
- [GDR-Intensity lectures: from theory to experiments and everything in between, "LF\(U\)V in B decays"](#)
Institut Henri Poincaré (Paris), October 26-27

Events supported by the GDR-InF:

- [The 2nd LHCb open semitauonic workshop](#)
LAL (Orsay), November 13-14
- [Journée SHiP/Physique du secteur caché](#)
LPNHE(Paris), October 11

Remarks.

- *In supported events we give a contribution to invite speakers.
The purpose is to profit of already existing/planned events, avoiding to create duplicates*
- *This was our first year, we had to setup things.*
 - *We need to make sure that all of us keep in mind that **the GDR-InF exists** and can provide support*
 - *We discovered that very concrete plans need to be established well in advance
(lots of events in HEP, better use of budget, increase of attendance,...)*

Intensity lectures: feedback

THEORISTS: 30% EXPERIMENTALISTS: 70%

QUESTION	% YES (among theorists)
Was the duration appropriate?	65 (67)
Was the level of theory part appropriate?	55 (100)
Was the level of experimental part appropriate?	80 (33)
Is there any topic you would have liked to discuss and was not?	44 (20)
Were the place and room adapted?	100
Do you think that recording the lectures is a good idea?	100
Would you suggest a colleague to watch the videos of the lectures when available?	100
How would you globally rate the lectures?	4 (3.5)
Are you willing to follow other lectures in the future?	100
Would you suggest to your colleagues to follow next lectures?	yes: 68 (66); maybe 32 (34)
Which subject would you suggest for the next edition?	

Globally, very positive feedback! (all grades >3/5, average grade 4/5)

Main comments: a bit too short; provide lectures notes; general introduction on the basics; provide the outline of the lectures

Suggestions: LFV + model building of NP, Neutrino physics, leptoquarks, Vcb issue, EFT, statistics for HEP, other hot topics in flavor physics, spectroscopy, CKM, new results from Belle when they will come out, more on LFU.

Our feeling is it is something useful to repeat regularly (2 times per year?)

Lectures are recorded. Videos will be available on the web.

We are considering to publish the lectures in a journal.

Plans for 2018

- [GDR-InF workshop: The future of the intensity frontier?](#)
Geneve, CERN, February 1-2
- [GDR-Intensity lectures: "LF\(U\)V in B decays II"](#)
Paris, IHP, 13th-14th February
- **Mini-workshop on charmless B decays**
Paris, LPNHE, April/May (TBD)
- **Event in common with GDR neutrino on lepton flavour in B decays**
March
- **Doubly charmed baryon spectroscopy workshop**
- **Strong CP violation workshop**
Grenoble, April/May
- **GDR-InF annual general meeting**
November

Sign up this week!
We can use remaining budget of 2017

*We need to follow our program keeping some room for flexibility and reactivity,
in order to accommodate for our needs/whishes!*

Some additional comments

*Happy birthday to our GDR!
Already one year old!*



- **Anyone can make proposal**, either to Aoife and Francesco or to the conveners. The proposals are discussed in the conveners meeting.
- **Anyone can volunteer to organise events.**
- **Let's try to coordinate when organising events** of interest for the GDR-InF community, in order to avoid unneeded duplicates and increase synergy. (providing an early calendar can help here)
- **Let's improve in GDR-InF « scientific production »** (lectures recording, lectures publication, reports, etc...)

Thank you and now let's discuss!