

'Assemblée générale' GDR QCD

New GDR presentation and first actions



C. Marquet (INP), C. Muñoz (IN2P3), M. Winn (CEA)

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- **Reinforcement of the topical group “perturbative QCD”**
 - Hard probes → perturbative aspects of QCD: scattering cross sections, resummations...
 - Large computing power required; GDR could help its coordination
- **Reinforcement of the topical group “QCD phase diagram”**
 - Only treated to a small extent within the former future prospects WG (i.e FAIR)
 - Develop synergy with high temperature QGP studies
- **Small system “puzzle” : synergy between hadron structure and QGP physics**
 - One of the recent LHC discoveries that requires a close collaboration between the two communities
- **Towards an EIC-France structure**
 - The GDR QCD could structure a strong and visible French contribution to the future Electron-Ion Collider
- **Future of heavy-ions at the LHC**
 - GDR as a privileged forum for the discussion of the French contribution to the different future projects

Single and multiple parton scatterings

- Zaida Conesa - EXP, IJCLab
- Cédric Lorcé - TH, CPHT
- Dominique Marchand - EXP, IJCLab

Collective effects with nucleon and nuclear collisions, phase diagramme of QCD

- Maxime Guilbaud - EXP, Subatech
- Antonin Maire - EXP, IPHC
- Marlene Nahrgang - TH, Subatech

QCD at short distances: experiment, theory and tools

- Jean-Philippe Lansberg - TH, IJCLab
- Laure Massacrier - EXP, IJCLab
- Emanuele Re - TH, LAPTh

Future prospects on strong interaction physics and observables

- Francesco Bossu - EXP, IRFU
- Emilie Maurice - EXP, LLR
- Beatrice Ramstein - EXP, IJCLab

QCD at low energy, non-perturbative methods

- Benoît Blossier - TH, IJCLab
- Maxim Chernodub - TH, IDP
- Cédric Mezrag - TH, IRFU

Please feel free to contact them
with your ideas and initiatives !

- 106 permanent staff members in 16 French UMR
 - + 29 participants from IRFU and foreign laboratories
 - = 135 (69 experimentalists et 66 theorists)
 - + 60 students/postdocs

- 9 IN2P3 laboratories:
 - APC, IJCLab, IPHC, IP2I, LLR, LPC, LPNHE, LPSC, Subatech

- 7 INP laboratories:
 - CPHT, CPT, IDP, LAPTh, L2C, LPTHE, IPhT

QDR-QCD-L@in2p3.fr

- To be used for announcements
- Up-to-date with information provided to us
- Please ask your students/postdocs to register if missing:
<https://listserv.in2p3.fr/cgi-bin/wa?SUBED1=GDR-QCD-L&A=1>



Subscribe or Unsubscribe to the GDR-QCD-L List

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This screen allows you to subscribe or unsubscribe to the GDR-QCD-L list. To confirm your identity and prevent third parties from subscribing you to a list against your will, you must enter your name and email address. Alternatively, you can update your subscription interactively by logging in with your LISTSERV password.

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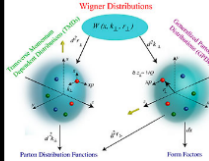
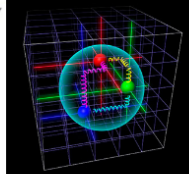
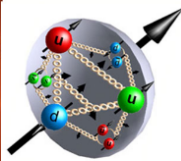
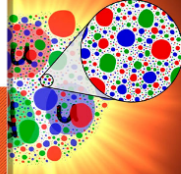
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Practical information: indico category

Dedicated category under the IN2P3 indico server (<https://indico.in2p3.fr>) for our GDR events:



The screenshot shows the Indico IN2P3 interface. At the top right, there are settings for 'Europe/Paris', 'Français', and 'S'authentifier'. The main navigation bar is orange and contains 'Accueil' and 'Créer un événement'. Below this is a breadcrumb trail: 'Home » IN2P3 » Laboratoires » GDR QCD', with 'GDR QCD' highlighted in a green box. A green arrow points from the text above to the 'Créer un événement' button. Below the breadcrumb, the page title is 'GDR QCD' and there is a blue 'Créer un événement' button and navigation icons. The main content area shows a calendar view for 'mars 2021' with an event '08 mars - 10 mars Assemblée Générale du GDR QCD'. Below that, the view switches to 'janvier 2021' with two events: '25 janv. Réunion direction (protégé)' and '18 janv. Réunion coordination (protégé)'.



Accueil-Présentation

Le GDR QCD

Résumé du  [texte fondateur](#):

Des physiciens membres de laboratoires français souhaitent se rassembler dans le cadre du Groupe-ment De Recherche Chromodynamique Quantique (GDR QCD). Cette structure a pour ambition de fédérer théoriciens et expérimentateurs partageant un intérêt commun pour l'étude de l'interaction forte. Cette structure s'appuiera sur les enseignements et l'expertise acquise dans l'exercice des GDR Nucléon puis PH-QCD, dont elle englobera les thématiques. Elle aura également pour ambition de s'ouvrir à une plus large communauté, afin de partager et de diffuser au maximum aussi bien les questionnements que les outils propres aux différentes thématiques du domaine, qu'il s'agisse des gammes d'énergies mises en jeu, du nombre de degrés de liberté excités, ou encore des concepts théoriques sous-jacents. Cette complémentarité sera notamment traduite par une activité fédératrice importante au niveau de la formation. Le GDR devra jouer un rôle moteur dans les réflexions concernant la prochaine génération de collisionneurs, pour lesquels l'étude de l'interaction forte sera l'un des sujets majeurs.

- Hosting in place (at IJCLab)
- Content under construction
- Publicly available within 2-3 weeks

ARTICLES RÉCENTS

Article 1

ARCHIVES

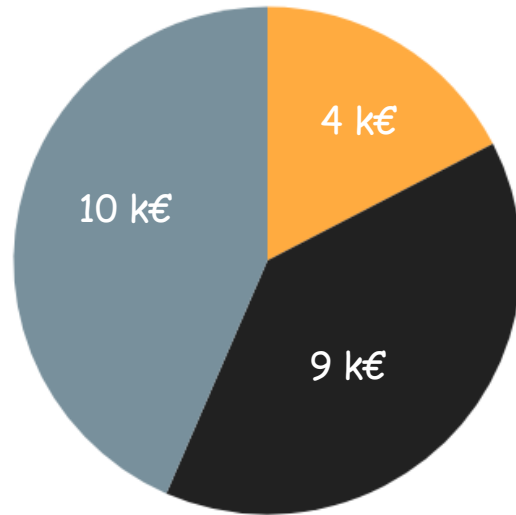
janvier 2021

GDR budget

23 k€ (IN2P3 + INP) per year

Anticipated distribution:

International school
(2 weeks/year)



General Assembly

Workshops

With covid-crisis, unusual mode of operation: long-term stay visitors? Other options?

- **Goal:** reward excellent thesis work in QCD performed in one of the GDR laboratories
- **Candidates:** young researchers that defended their PhD during calendar year 2020
- **Nominations:** by a permanent GDR member (typically his/her advisor) to GDR-QCD-DIR@in2p3.fr
- **Documentation:** CV, referee's reports, defense report and link to the manuscript
- **Deadline:** March 31
- Evaluation committee formed by several members of the GDR
- Result expected in May

For more details, check the announcement sent to the GDR mailing list (on Feb 19), or contact GDR-QCD-DIR@in2p3.fr

➤ **Reminder of the format:**

- Every 2 years (alternating with the theory school QCD Master Class)
- Place: Orsay
- Organization: by the GDR directors

➤ **Ideas to discuss:**

- Increase frequency: to every year

(possibly with an experimental focus the years that QCD Master Class take place)

- Organization: alternating among the different working groups
- Place: conference center, outside Paris region ?

Around 60 PhD students and postdocs in the GDR

➤ Young Researchers Day(s):

- Informal presentations by students and postdocs
- Organized by themselves, with logistic/financial support of GDR
- Interesting scientific and networking opportunity

➤ Training activities:

Training to specific tools of the QCD community
(eg. NLOAccess/Partons/Generator, EIC/LHC/FAIR simulations software, etc)

This week's General Meeting

- Report by Samuel Wallon on the previous GDR (years 2016-2020)
- Presentations by the 5 working groups of the new GDR
- Announcements of the events that are receiving funding from the GDR
- Talks by the 2nd-year PhD students and new postdocs on their work

Suggestions for future years are welcome

Some ideas under consideration:

- Dedicated session on special topics (eg. jobs outside academia for young researcher in our field)
- Relocate the place outside one particular lab/university to maximize attendance and interactions