

'Assemblée générale' GDR QCD



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

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What is the GDR QCD ?

Recurring (5 years, renewable) dedicated funding from IN2P3 & IPN CNRS institutes to organize activities within the QCD French community

Members of GDR QCD:

- 109 permanent staff members in 16 French UMR
 - + 28 participants from IRFU and foreign laboratories
 - = 137 (71 experimentalists et 66 theorists)
 - + 62 students/postdocs = 199 members
- 9 IN2P3 laboratories:
 - APC, IJCLab, IPHC, IP2I, LLR, LPC, LPNHE, LPSC, Subatech
- 7 INP laboratories:
 - CPHT, CPT, IDP, LAPTh, L2C, LPTHE, IPhT

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 diagram of QCD

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

QCD at large transverse momentum

- 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

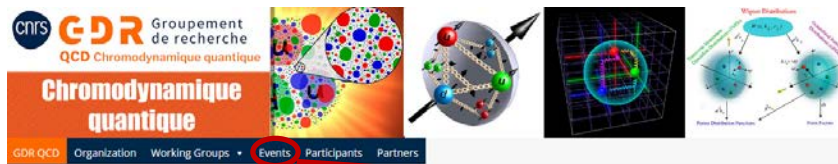
- Benoît Blossier - TH, IJCLab
- Maxim Chernodub - TH, IDP
- Cédric Mezrag - TH, IRFU

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

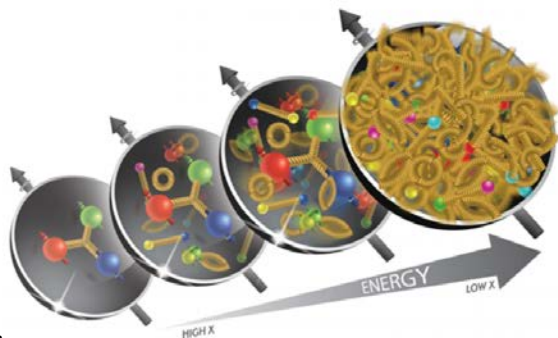
Mailing list: QDR-QCD-L@in2p3.fr

- To be used for announcements
- Please sign-up here:

<https://listserv.in2p3.fr/cgi-bin/wa?SUBED1=GDR-QCD-L&A=1>



GDR QCD



TUTELLES

- cnrs IN2P3
- cnrs INP

RECENT POSTS

- Séminaire du GDR QCD - 12/05/2022
6 May 2022
- Prix de thèse du GDR QCD - 18 February 2022
- Séminaire du GDR QCD - 03/02/2022
31 January 2022
- Séminaire du GDR QCD - 12/10/2021
8 October 2021
- Lauréat du prix de thèse 2021 du GDR QCD - 1 July 2021



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Events

2022

- GDR QCD International Summer School, June 26- July 9 (IMT Atlantique)
- Workshop on progress in algorithms and numerical tools for QCD, June 7-8 (Paris-Saclay University)
- General Assembly, May 23-25 (La Vieille Perrotine, Oleron Island)
- Prospectives Ions Lourds, March 10-11 (Paris-Saclay University)
- Quarkonia As Tools, January 9-15 (Aussois, French Alps)

2021

- WG4 di-lepton workshop, November 25-26 (Paris-Saclay University)
- QCD Master Class, August 29 - September 11 (Saint-Jacut, Brittany)
- Rencontres QGP-France, July 5-8 (Étretat, Normandy)
- WG1 kick-off workshop, June 21-23 (virtual)
- Quarkonium and QCD meeting, June 20-26 (Aussois, French Alps)
- WG3 joint workshop with STRONG2020 activities, May 31 - June 4 (virtual)
- Quarkonia As Tools, March 22-26 (virtual)
- General Assembly, March 8-10 (virtual)

Web page:
<http://gdrqcd.in2p3.fr>

Some recurring GDR initiatives

- Annual meeting (this one!)
- Summer school (2022 edition organized by WG2, more details later)
- GDR thesis prize (2021 awardee will present his work today)

In addition:

- Individual working groups activities (you will hear reports in a few minutes)
- Support to QCD related activities in France (QCD Master Class, Quarkonia as tools, etc.)

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)

Suggestion and new ideas more than welcome !!

This week's agenda

Monday

15:00	Welcome	Carlos Muñoz Cárceles et al. 15:00 - 15:10
	WG1: Interactions simples et multiples entre partons	Cédric Loré et al. 15:10 - 15:20
	WG2: Effets collectifs dans les nucléons et noyaux, diagramme de phase de QCD	Antonin Mazur et al. 15:20 - 15:30
	WG3: QCD à grande impulsion transverse	Jean-Philippe Lansberg et al. 15:30 - 15:40
	WG4: Perspectives sur les observables de l'interaction forte	Delphine Ramstein-Faure et al. 15:40 - 15:50
	WG5: QCD à basse énergie, méthodes non perturbatives	Benoit Baudouin et al. 15:50 - 16:00
16:00	Prix de thèse du GDR QCD 2021	Paul Caucal 16:00 - 16:30
	Coffee break	16:30 - 17:00
17:00	Medium induced radiation: from static to dynamic media	Carlotta Andreis 17:00 - 17:20
	Higher Order Corrections to the Transverse Momentum Broadening Coefficient in a Weakly Coupled Quark Gluon Plasma	Samson Witz 17:40 - 18:00
	Polarization of jets in the glasma	Sigrýggur Mæsson 17:40 - 18:00
18:00	Pion-pion scattering from nucleon-meson fluctuations	Ester Jürgen 18:00 - 18:20
	On the role of the initial stage concerning the dynamics of heavy-ion collisions using EPoS and PHSD	Jafarpour Mahdobeih 18:00 - 18:20
19:00	Reception	19:00 - 20:00
20:00	Dinner	19:00 - 20:00
21:00		20:00 - 21:30

09:00	Towards a unified description of exclusive Compton scatterings for small and moderate x	Renaud Boussarie 09:00 - 09:20
	A glimpse on the partonic structure of light nuclei through Deeply Virtual Compton Scattering	Sara Fucini 09:20 - 09:40
	Accessing GPDs through the exclusive photoproduction of a gamma meson pair with large invariant mass	Sasa Radicevic 09:20 - 09:40
10:00	Recoll proton polarization in DVCS as a probe for CFF E	Olga Bessidskaia Bylund 10:00 - 10:20
	Coffee break	10:20 - 10:50
11:00	Kinematical higher twist corrections in gamma*-gamma->M+M	Qin-Tao Song 10:50 - 11:10
	Conceptual design of a target for a positron source at JLab	Andriy Ustahov 11:10 - 11:30
	Simulation and instrumentation for the future Electron Ion Collider	Purkhai WANG 11:30 - 11:50
12:00	Kalman Filter for BIONuS12 experiment at JLAB	Mathieu Ouelton 11:50 - 12:10
	Lunch	12:10 - 14:00
14:00	Weighing the Top Quark with Energy Correlators	Jack Hoquein 14:00 - 14:20
	Precision Higgs physics at LHC	Ajath Abdul-Hameed 14:20 - 14:40
	QCD threshold resummation for top production	Simon Yehudi 14:40 - 15:00
15:00	Measurement of the Lund jet plane density at 13 TeV with CMS	Cristian Bălăneanu Savone 15:00 - 15:20
	Coffee break	15:20 - 15:50
16:00	CNRS	Antonio Uras 15:50 - 16:10
	CEA	Hervé Mustaride 16:10 - 16:30
	Universités	Takdir SALIH 16:30 - 16:50
	Industrie	Clement Combeaud 16:50 - 17:10
17:00	Table Ronde	17:10 - 18:00

Tuesday

Wednesday

09:00	Contributions from hadronic light-by-light scattering to the anomalous magnetic moment of the muon from lattice QCD	Christian Zimmermann 09:20 - 09:40
	eta and eta' transition form factors and the hadronic light-by-light contribution to the muon g-2	Willem Verplanken 09:20 - 09:40
	Hadronic contribution to the running of the fine structure constant	Sophie Mitzel 09:40 - 10:00
10:00	Lattice QCD calculation of meson and baryon form factors	Gen Wang 10:00 - 10:20
	Coffee break	10:20 - 10:50
11:00	La distribution du gluon dans les noyaux à petit x	Chloé Léger 10:50 - 11:10
	Distinguishing prompt and non-prompt : the J/Psi emancipation of Run 3 in ALICE	Corentin COT 11:10 - 11:30
	The production of J/psi and psi(2S) as a function of charged-particle multiplicity with the ALICE experiment at the LHC	Theresa Tork 11:10 - 11:30
	Test of the CPT symmetry via the mass difference measurements of multi-strange baryons	Romain Schotter 11:50 - 12:10
12:00	Lunch	12:10 - 14:00
13:00	Measurement of isolated photon spectrum in pp collisions at 13 TeV with the ALICE EMCAL	Ran Xu 14:00 - 14:20
	Next-to-leading order Higgs production in hybrid high-energy and collinear factorization	Michael Fucila 14:20 - 14:40
	Departure	14:45 - 15:00

Banquet dinner (8PM Tuesday)

Careers (academia and beyond)

Some leisure activities



➤ Plenty of outdoors activities within the complex:

- Swimming pool, tennis, volleyball (balls, racquets, etc available)

➤ Bike trails all around the island

- Complementary bike rental during morning coffee break tomorrow (10:20 AM)

- Suggested route: Boyardville beach (~15 min ride). Possible times:

- ❖ 6 PM - 8 PM Tuesday
- ❖ 1 PM - 2 PM Tuesday/Wednesday

