

'Assemblée générale' GDR QCD



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September 27, 2023

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

- **Renaud Boussarie** - TH, CPHT
- Zaida Conesa - EXP, IJCLab
- Dominique Marchand - EXP, IJCLab

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

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

QCD at large transverse momentum

- Emilien Chapon - EXP, IRFU
- Laure Massacrier - EXP, IJCLab
- **Melih Ozcelik** - TH, IJCLab

Future prospects on strong interaction physics and observables

- Francesco Bossu - EXP, IRFU
- **Matt Nguyen** - EXP, LLR

QCD at low energy, non-perturbative methods

- Maxim Chernodub - TH, IDP
- **Mariane Mangin-Brinet** - TH, LPSC
- Cédric Mezrag - TH, IRFU

*New conveners
(joined in July 2023)*

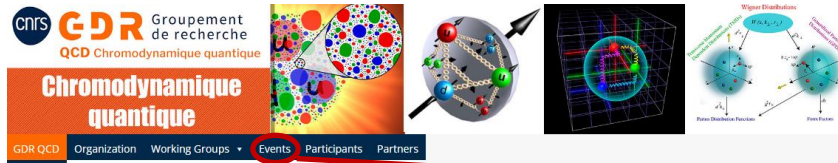
Please feel free to contact them
with your ideas and initiatives !

Practical information

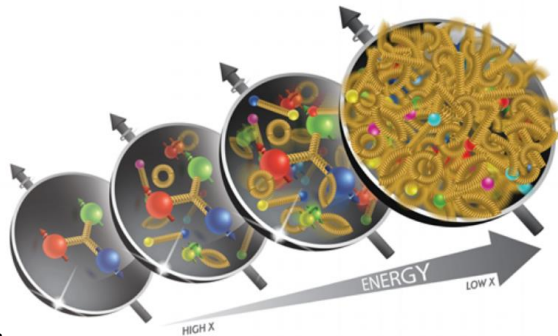
Mailing list: QDR-QCD-L@in2p3.fr

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

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



GDR QCD



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

TUTELLES

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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

2023

- Workshop on (in)coherence in diffractive and hadronic collisions, October 11-13 (Paris-Saclay University)
- General Assembly, September 27-29 (IPHC Strasbourg)
- Joint workshop with GDR Intensity Frontier, September 19-20 (CPPM Marseille)
- Lattice QCD International Summer School, July 2-8 (Aussois, French Alps)
- Rencontres QGP-France, June 26-29 (Bagnoles de l'Orne, Normandy)
- QCD Master Class, June 4-17 (Saint-Jacut, Brittany)
- QCD evolution workshop, May 22-26 (Paris-Saclay University)
- Joint workshop with IRN Terascale, April 24-26 (LPSC Grenoble)
- Quarkonia As Tools, January 4-14 (Aussois, French Alps)

2022

- Workshop on Saturation at the EIC, November 17-18 (Paris-Saclay University)
- 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)

Some recurring GDR initiatives

- Annual meeting (this one!)
- Summer school (2022 edition organized by WG2, more details later)
- GDR thesis prize (2022 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

Wednesday

09:00	Welcome	Carlos MUÑOZ CAMACHO et al.
	Amphithéâtre Grünewald (bât. 25), IPHC	15:00 - 15:10
	WG1: Interactions simples et multiples entre partons	Dominique Marchand et al.
	Amphithéâtre Grünewald (bât. 25), IPHC	15:10 - 15:20
	WG2: Effets collectifs dans les nucléons et noyaux, diagramme de phase de QCD	Antonin Maire et al.
	Amphithéâtre Grünewald (bât. 25), IPHC	15:20 - 15:30
	WG3: QCD à grande impulsion transverse	Laure MASSACRIER et al.
	Amphithéâtre Grünewald (bât. 25), IPHC	15:30 - 15:40
	WG4: Perspectives sur les observables de l'interaction forte	Francesco Bossu et al.
	Amphithéâtre Grünewald (bât. 25), IPHC	15:40 - 15:50
	Coffee break	
16:00	Amphithéâtre Grünewald (bât. 25), IPHC	15:50 - 16:20
	WGS: QCD à basse énergie, méthodes non perturbatives	Dr Cédric Mezrag et al.
	Amphithéâtre Grünewald (bât. 25), IPHC	16:20 - 16:30
	Prix de thèse 2022 - Collective phenomena and critical transitions: from plasma to complex socio-ecological systems	Guillaume Falmgagne
17:00	One-loop corrections to inclusive production of J/psi and Upsilon in high-energy photon-photon collisions in NRQCD at...	Yelyzaveta Yedichkina
	Extraction of TMD distributions	Valerio Bertone
	Amphithéâtre Grünewald (bât. 25), IPHC	17:25 - 17:55
19:00	Restaurant - Le Meteor	
20:00		
21:00		
22:00	Le Meteor	19:30 - 22:00

Thursday

09:00	Deeply Virtual Compton Scattering with CLAS12 at Jefferson Lab	Adam HOBART
	Amphithéâtre Grünewald (bât. 25), IPHC	09:30 - 10:00
10:00	Exclusive production of phi meson off the neutron with CLAS12 detector	Niveditha Ramasubramanian
	Amphithéâtre Grünewald (bât. 25), IPHC	10:00 - 10:30
	Next-to-next-to-leading order formulation of BKFL evolution	Michael Fucilla
	Amphithéâtre Grünewald (bât. 25), IPHC	10:30 - 10:55
11:00	Coffee break	
	Amphithéâtre Grünewald (bât. 25), IPHC	10:55 - 11:15
	Impact of Renormalization on Order Parameter	Nadine Attieh
	Amphithéâtre Grünewald (bât. 25), IPHC	11:15 - 11:40
	Charged particle pseudorapidity density in ALICE Run 3 using the MFT	Sarah Herrmann
	Amphithéâtre Grünewald (bât. 25), IPHC	11:40 - 12:05
12:00	GPDs: Combining Experimental and Simulation Data	Michael Riberdy
	Amphithéâtre Grünewald (bât. 25), IPHC	12:05 - 12:30
13:00	Lunch	
	building 80, 1st floor, personnel side, University restaurant	12:45 - 14:00
14:00	Resolving b-jet substructure by aggregating b-hadron decay products	Léla Kaljooli
	Amphithéâtre Grünewald (bât. 25), IPHC	14:00 - 14:25
15:00	Amphithéâtre Grünewald (bât. 25), IPHC	14:50 - 15:15
	Quarkonium quests with high-energy inclusive and exclusive productions	Christopher Alexander FLETT
	Amphithéâtre Grünewald (bât. 25), IPHC	15:15 - 15:40
	Computing heavy quarkonium production cross sections at high energy with the matching between collinear and high...	Maksim NEFEDOV
16:00	Coffee break	
	Amphithéâtre Grünewald (bât. 25), IPHC	16:00 - 16:15
	Results of the first pion on university, equity and inclusion	Denise Anzler
	Amphithéâtre Grünewald (bât. 25), IPHC	16:30 - 16:55
17:00	DEI in physics and beyond	Kesal TURZO
	Amphithéâtre Grünewald (bât. 25), IPHC	16:55 - 17:20
	DEI initiatives at IPHC	Claudine Gallone et al.
	Amphithéâtre Grünewald (bât. 25), IPHC	17:20 - 17:45
	Round table	
	Amphithéâtre Grünewald (bât. 25), IPHC	17:45 - 18:30
19:00		

Diversity, Equity and Inclusion

Friday

09:00	Progress on the extraction of parton distribution functions from lattice QCD	Savvas Zafeiropoulos
	Amphi Marguerite Perey, bât. 01 (délégation Alsace), IPHC	09:30 - 10:00
10:00	Interpolating scheme between the Regge and Bjorken limits for exclusive Compton Scattering	Renaud Boussarie
	Amphi Marguerite Perey, bât. 01 (délégation Alsace), IPHC	10:00 - 10:30
	ALICE results on coherently photo produced J/psi polarization in Pb-Pb collisions with nuclear overlap	Mallik Duhrahyam
11:00	Coffee break	
	Amphithéâtre Grünewald (bât. 25), IPHC	10:55 - 11:15
	Quarkyonic matter and the speed of sound in ultra-dense matter	Antoine Pfaff
	Amphi Marguerite Perey, bât. 01 (délégation Alsace), IPHC	11:15 - 11:40
	Probing gluon saturation in semi-hard diffractive $\gamma\gamma^* \rightarrow \pi^0 \pi^0$ processes	Emilie Li
	Amphi Marguerite Perey, bât. 01 (délégation Alsace), IPHC	11:40 - 12:05
12:00	sPHENIX	Audrey Francisco
	Amphi Marguerite Perey, bât. 01 (délégation Alsace), IPHC	12:05 - 12:35
13:00	Lunch	
	building 80, 1st floor, personnel side, University restaurant	12:45 - 14:00
14:00	Towards cbar(c) GPDs from lattice QCD	Jose Manuel Morgado Chavez
	Amphi Marguerite Perey, bât. 01 (délégation Alsace), IPHC	14:00 - 14:25
	Light by light scattering in Ultra-peripheral collisions (UPC) at the LHC	Ekta Chaubey
	Amphi Marguerite Perey, bât. 01 (délégation Alsace), IPHC	14:25 - 14:50
	Concluding remarks	Carlos MUÑOZ CAMACHO et al.
	Amphi Marguerite Perey, bât. 01 (délégation Alsace), IPHC	14:50 - 15:00
15:00		

End at 3PM

Banquet dinner (8PM Thursday)

- Tonight: reception (7:30 PM)
 - *Le Meteor: Drinks and tartes flambées*
- Tomorrow: workshop dinner (8 PM)
 - *Brasserie La Bourse: Choucroute*

- Accueil
- Ordre du jour
- Inscription
- Liste des participants
- Se rendre à l'IPHC
- Se loger à Strasbourg
- Dîners à Strasbourg**
- GDR QCD
- ✉ GDR-QCD-DIR-L@in2p...

Dîners à Strasbourg

L'AG sera ponctuée par deux dîners au centre ville de Strasbourg :

- Mercredi soir 27 septembre :
 - Le Meteor, repas autour de tartes flambées
 - Adresse : 10 rue du 22 Novembre ou 27 Grand Rue, 67 000 Strasbourg
 - <https://lemeteor.fr/>
- Jeudi soir 28 septembre :
 - La Bourse, repas autour d'une choucroute
 - Adresse : 1 Place de Lattre de Tassigny 67000 Strasbourg
 - <https://grandesbrasseries.fr/la-bourse-strasbourg>

Special thanks to Antonin Maire and the rest of the local organizing committee
for all the help with the organization of the event