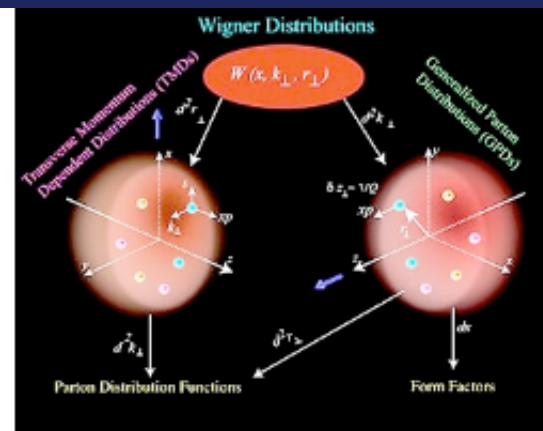
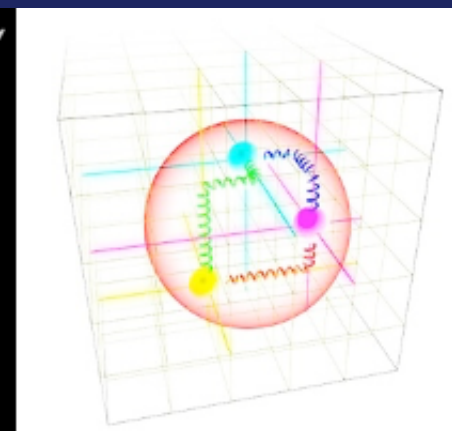
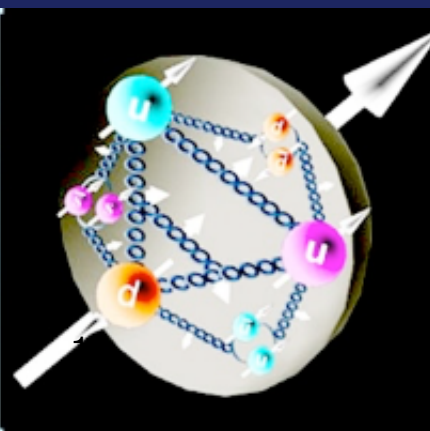


GROUPEMENT DE RECHERCHE
Chromodynamique Quantique (QCD)

Welcome to Nantes

2026 General Assembly



Missions of the QCD GdR



Community

Interdisciplinary approach

Bridging theory & experiment, and neighbouring fields, via workshops and the general assembly



Training

Research-based training of PhD students

Thematic workshops, network of young researchers, and promotion of students' work



Prospects

Initiate and support emerging topics

Seeding through workshops; foresight and strategy meetings for the field



International

Welcoming foreign colleagues collaborating with French teams; fostering exchange



Excellence

Award nominations (CNRS medals, SFP prizes) and the QCD GdR PhD Thesis Prize

QCD GdR organisation, governance and community

FUNDING

CNRS Physique

CNRS Nucléaire
& Particules

Budget →

GdR on Quantum Chromodynamics
GDR3753

Management Team

INDIRECT SUPPORT

Irfu
CEA Saclay

Engineering schools
& Universities

← Support

WP Coordinators Committee

WP1 Nucleon & Hadrons

WP2 Hadronic Collisions

WP3 Precision QCD & Hard Probes

WP4 Non-perturbative QCD and QCD models

WP5 Innovative methods for calculations and reconstruction

Proxy Committee · 20 labs

CPhT · CPT · DPhN-LSN · DPhN-QGP · IDP ·
IJCLab-theory · IJCLab-ALICE · IJCLab-JLab&EIC ·
IJCLab-Other · IPHC · IPhT · IP2I · LAPTh · L2C
· LLR · LPCA · LPNHE · LPSC · LPTHE ·
Subatech-Th · Subatech-ALICE-LHCb

141

permanent staff

100

+

31

CNRS

Univ.

33

+

13

post-docs

abroad

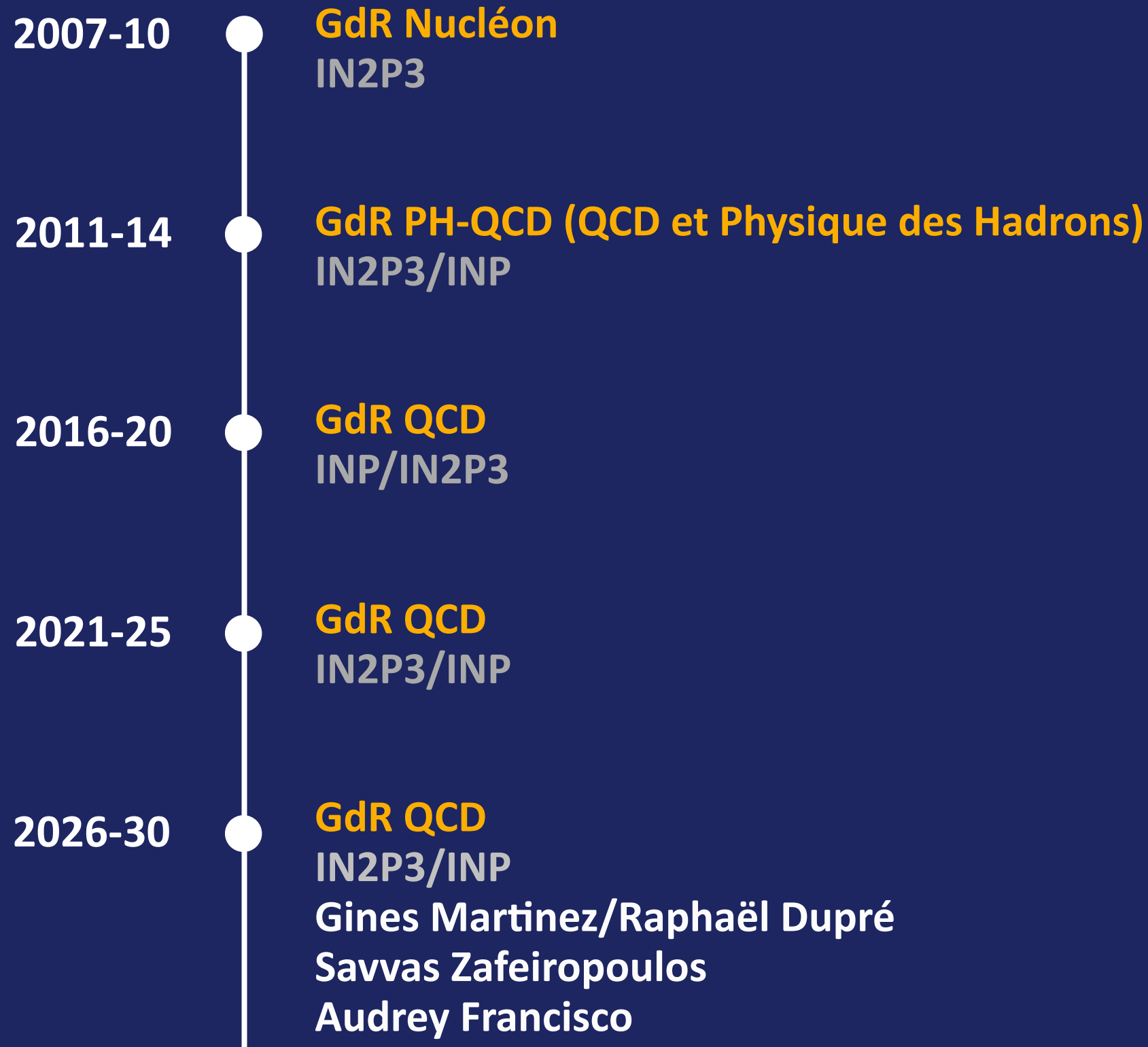
42

PhD students

229

researchers,
international network
(in construction)

GdR record



Working group coordinators

WP1

Nucleon & Hadrons

Mostafa Hoballah & Ingo Schienbein

WP2

Hadronic Collisions

Kirill Boguslavski & Kara Mattoli

WP3

Precision QCD & Hard Probes

**Carlota Andrés Casas & Paul Caucal
& Niveditha Ramasubramanian**

WP4

Non-perturbative QCD & QCD models

Antoine Gérardin & Roman Miziuk

WP5

**Innovative methods for
calculations and reconstruction**

Benjamin Audurier et Valerio Bertone

Working group keywords

WP1

Nucleon & Hadrons

Nucleon structure, Parton distribution functions (PDF & nPDF) (PDF et nPDF), Transverse Momentum Distribution(TMD). Partons Generalized Distribution (GPD), Gravitational Form Factor (GFF), gluon saturation, nucleon spin, ...

WP2

Hadronic Collisions

Initial stages, MonteCarlo Generators, soft processes, soft probes, collectiveness behaviour, hydrodynamics, hadron-hadron interactions, ...

WP3

Precision QCD & Hard Probes

Perturbative QCD calculations, precisions, jets, electroweak bosons, heavy flavours, Color Glass Condensate, interaction with QCD matter, ...

WP4

Non-perturbative QCD & QCD models

Lattice QCD calculations, Dyson-Schwinger equations, Bethe-Salpeter, exotic hadrons ...

WP5

Innovative methods for calculations and reconstruction

Numerical methods, software development, parallel computing, GPU architecture programming, FPGA programming, Machine Learning, Deep neuronal networks, transformers, quantum algorithms, quantum computing, ...

Please feel free to send us additions or comments to this list!

Proxy committee

CPHT	Cyrille Marquet	IJCLab -Others	Patrick Robbe	LLR	Elisabeth Niel
CPT	Savvas Zafeiropoulos	IJCLab -Theory	Samuel Wallon	LPCA	Nicole Bastid
DPhN -JLab-EIC	Audrey Francisco	IPHC	Antonin Maire	LPNHE	Wilfrid Da Silva
DPhN -ALICE-LHCb	Javier Castillo	IPhT	François Gelis	LPSC	Gustavo Conesa
IDP	Stam Nicolas	IP2I	Niveditha Ramasubramanian	LPTH	Matteo Cacciari
IJCLab -JLab-EIC	Raphaël Dupré	LAPTh	Diego Guadagnoli	Subatech -Theory	Paul Caucal
IJCLab -ALICE	Zaida Conesa del Valle	L2C	Jean-Loïc Kneur	Subatech -ALICE-LHCb	Maxime Guilbaud

Budget and Activities in 2026

Workshops

Rencontres QGP France (May 26-29 , Bagnoles-sur-Orne)

Workshop «Progress in algorithms and numerical tools for QCD» (June 9-10, Orsay)

Workshop EIC France 2026 (Nov 30- Dec 2, Orsay)

General Annual Meeting (Oct 7-9, Nantes)

Schools

QCD Master Class (Aug 28 - Sep 10, Saint-Jacut)

JRJC (Nov 22-28, Saint-Jacut)

2026 PhD Thesis Prize

Talk on Friday

Juan Sebastian Alvarado Galeano (IJCLab)

Webinars

03/09/2026 T. Duguet, Nuclear structure and QGP

Budget: 20k€ in 2026
(19k€ from INP+IN2P3 < 2021-26)



QCD GdR Activities in 2027

Workshops

Rencontres QGP France 2027

General Annual Meeting

Schools

EIC Summer School (Jun 27-Aug 3, Orsay)

QCD Master Class 27

JRJC 27

TBC: Ecole de Gif, Lattice phenomenology, 3D Hadronic structure

Prizes

2027 QCD GdR PhD Prize → Please send nominations for your PhD students

Don't hesitate to ask us for support for external awards

Webinars

→ Please send us info about local seminars

Information about this General Meeting

Great attendance! (70 people)

Advisory Scientific Committee: conveners and management team

Organizing Committee: François ARLEO, Barbara ERAZMUS, Maxime GUILBAUD, Gines MARTINEZ, Tanja PIERRET

Sessions: talks and posters

Invited talks: Muon $g-2$, Toponium, Nuclear structure and RHI, FCCee QCD, Proton Radius Puzzle, Precision QCD

Table ronde: French QCD perspectives - *What drives our community?*

General Assembly Program

Wednesday 7/10



Canteen

PM session

Welcome drink
Downtown

Thursday 8/10

Morning session

Buffet and poster
session

PM session

Table ronde

Downtown dinner (LU)

Friday 9/10

Morning session

Poster flash talk

Canteen



Practical info

Posters

Please come see me today to
install your poster

Best poster flash talk on Friday

Canteen

Voucher system

Please collect yours before heading
there

Welcome drink 8pm

La Compagnie du Café Théâtre

6 Rue des Carmélites, 44000 Nantes
Just behind the Chateau des Ducs de Bretagne

Dinner on Thursday 8pm

Le Lieu Unique

Rue de la Biscuiterie, 44000 Nantes
West end of the train station

Enjoy the 2026 QCD GdR Annual Assembly!