

15th France China Particle Physics Network/Laboratory Workshop (FCPPN/L2024) University of Bordeaux, France on June 10-14, 2024

- Short « just-out-of-the-oven » minutes of the Steering Committee
- Wrap-up

Agenda of the Steering Committee meeting

- Projects supported this year
- **LIA** transitions towards:
 - Two intertwined CNRS collaborative tools **IRN + IRL** to keep an active support to FCPPL to projects in general an increase possibility of extra funding
- Governance of the IRN
- Paths for improvement w.r.t current operation?
- Foster new collaborations: focused mini-workshops
- Location of the next FCPPN yearly Workshop

Projects supported in 2024

27 projects supported: 183 k€ requested to FCPPL and 71 k€ distributed to projects

French PI	Laboratory	Chinese PI	Laboratory	Title	Acronym
BAMBADE Philippe	IJCLab	GAO Jie	IHEP	Luminosity and injection background monitoring and correction at SuperKEKB and CEPC	SKB_TO_CEPC
BARSUK Sergey	IJCLab	HE-Jibo	UCAS Beijing	Charmonia in LHCb	LHCbQQ
BASTID Nicole	LPCA	ZHANG Xiaoming/ ZHOU Daicui	IOPP / CCNU	Study of QCD matter with the ALICE detector	PAP_ZHANG-ZHOU_BASTID_ALICE
BAUDOT Jérôme	IPHC	OUYANG Qun	IHEP	Belle II vertex detector upgrade	BVU
BECHETOILLE Edouard	IP2I Lyon	ZHANG Liang	SDU	ASIC development for strip-pixel sensor	PICMIC
BERNARDI Grégorio	APC	YANG Haijun	SJTU	Search for HH production at the LHC	PAP_SJTU_APC_HHPS
BOUDRY Vincent POESCHL Roman	LLR IJCLab	RUAN Manqi	IHEP	an SiW-ECAL optimized for e+e- collisions	DEV_IHEP+LLR_EPDET
CACCIAPAGLIA Giacomo	IP2I Lyon	Zhang Hong-Hao	SYSU	Gravitational Wave signals and Cosmology of Composite Higgs and Dark Matter Models	CompoGW
CHARLOT Claude	LLR	Qiang Li	PKU	Multi-boson Physics at LHC and future machines	MultiBoson
DA SILVA Wilfrid	LPNHE	LI Haibo	IHEP	COMET Track Finding and Fitting	CTFF
DRACOS Marcos	IPHC	Changgen Yang	IHEP	JUNO-IHEP-IPHC-muon-tracker: Installation and operation of the JUNO Top Tracker	JUNOTT
DUPRAZ Kevin	IJCLab	YAN Lixing	THU		Compton Source
FAUS-GOLFE Angeles	IJCLab	CHI Yunlog	IHEP	Optics design of a transverse monochromatic scheme for the direct s-channel Higgs production at FCC-ee	MONOCHROM
FUKS Benjamin	LPTHE Paris	LIU Bingxuan	SYSU	Exploring t-channel charm-philic dark matter scenarios	CharmedDM
GASCON Suzanne	IP2I Lyon	CHEN Guoming	IHEP	Higgs boson discovery and measurement with photons in CMS	CMSHIGPHO
GERMAIN Marie	SUBATECH	WANG Jianchun	IHEP	R&D for CMOS based sensors in LHCb tracking for HL LHC	LHCbU2UT
LAKTINEH Imad	IP2I Lyon	YANG Haijun	SJTU	CALO-SJTU-IPNL-SDHCAL	SDHCAL
LAKTINEH Imad	IP2I Lyon	HAN Ran	BISEE (Beijing)	Muon tomography	TOMO
MARTENS Aurélien	IJCLab	DUAN Zhe	IHEP	Future Colliders Compton Polarimeters / France China Compton	FCCP
MARTINEAU Olivier	LPNHE	WU XiangPing	NAOC (Beijing)	Starting GRANDProto300	GRAND
MONNIER Emmanuel	CPPM	JIN Shan	NJU	LHC-IHEP-CPPM-ATLAS: Physics at LHC with the ATLAS detector	
NERONOV Andrii	APC	QIANG Yuan	Purple Mountain	Highest energy gamma-ray sky with LHAASO	LHAASO
PERDEREAU Olivier	IJCLab	CHEN Xuele	NAOC (Beijing)	BAORadio & Tianlai	BAORadio
PERROT Frédéric	LP2IB	HE Miao	IHEP	he JUNO Small Photomultipliers Tube (SPMT) system	JUNO-SPMT
ROBBE Patrick	IJCLab	ZHANG Liming	THU	Bc studies and upgrade of ECAL for LHCb	BcECAL2LHCb
SANTOS Daniel et TAO Charling	LPSC Grenoble	YUE Qian	THU	Directional Dark Matter Detection with MIMAC and Fast and Thermal Neutron detection in underground laboratories.	AST_YUE_SANTOS_UGLAB
SHAO Hua-Sheng	LPTHE Paris	MA Yan-Qing	PKU	Quarkonium studies at the LHC and future facilities	Quarkonium4AFTER

Next Call for Proposal in Dec 2024

Agreement renewal and evolution

- LIA agreement renewal
 - Two intertwined CNRS collaborative tools IRN + IRL to keep an active support to FCPPL to projects in general an increase possibility of extra funding



FCPPN

Agreement went through
CAS and CNRS International
Visit of the CNRS CEO on
24-26 Jun 2024:
CAS and IHEP, JUNO

FCPPPL Joint Lab with walls @ IHEP in Beijing

More specifically for experiments in China

- Neutrinos (JUNO, Submarine neutrinos,...)
- Future colliders and detectors
- ...

Paperwork to be finalized by the end of this year
for an implementation right after

Additional funding from China

Gang successfully managed to get extra funding 😊

- The project France China Particle Physics joint Lab (FCPPL) is granted extra funding by the **MoST** and by **CAS**
- The main goal is to establish a joint lab “with walls”:
Personal communications and exchanges will be supported.
The main areas of collaboration are LHC, future colliders, JUNO etc., other fields of collaboration are not excluded.

IRN Governance -> approved

Steering Committee (STC)

It is composed of representatives of all institutions contributing financially to the IRN: the director of IN2P3 or his or her representative, the director of IHEP or his or her representative, and representatives of contributing partners.

The STC validates the proposal of the IRN Board of directors for the use of the IRN resources allocated to collaborative projects and other activities undertaken by the IRN.

Board of directors (BoD)

The IRN is co-directed by a Director from IHEP and a Director from IN2P3 and a deputy director representative of the cluster of Chinese Universities participating in the IRN.

The term of the BoD is 5 years and related to the duration of the IRN.

Both the IRN and the BoD can be renewed.

Scientific Evaluation Committee (SEC)

The BoD appoints members of the SEC for a 5-year term. The SEC comprises an equal number of Chinese and French Scientists, at least four from each country. The SEC must be validated by the STC. The SEC is in charge of the evaluation of the scientific collaborative projects proposed within the IRN. Following the evaluation, the BoD makes a proposal for the allocation of the resources to the projects selected for funding. This proposal has to be validated by the STC.

Paths for further improvement ? -> approved

- Organize focused mini-workshop to foster stronger collaboration on concrete projects
- Improve FCPPN website
- Make Internships and thesis proposals available on the FCPPN/L website
- Have systematically all supported projects present at the yearly Workshop
- Add the possibility to present posters at the yearly Workshop
- Restart the FCPPN PhD Prizes
- ...

Foster new collaborations... -> approved

We will try to organize in 2024-2025 some mini-workshops (via Zoom or in person) focused on:

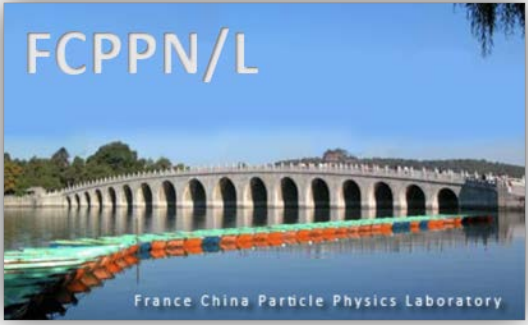
- R&D for future detectors
- R&D for computing and AI for high energy physics
- Follow-up on submarine neutrino telescopes possible collaborations
- ...

allowing the community to brain storm, setup and implement new projects and collaborations in these themes.

France China Particle Physics Network/Lab (FCPPN/L)

Numbers and Facts

- **Web site (TWiki):** fcpl.in2p3.fr
Mailing-list: FCPPL-L@in2p3.fr (over 460 members!)
- **Funding:** ~ 160 to 200k€/yr (FR/CN ~ 1)
for mobility and exchange - *all sources included*
~ 30 collaborative projects funded each year
96 co-supervised PhD students since 2005
- **Yearly Workshop:**
 - 5 day long
 - 100+ participants
 - lively, dynamic and friendly community



Beijing (IHEP)
12/2006
(to prepare FCPPL)

Marseille, 01/2008
Wuhan, 03/2009

Lyon, 04/2010
Jinan, 04/2011
Orsay-Saclay, 03/2012
Nanjing, 03/2013
Clermont-Ferrand, 04/2014

Hefei, 04/2015
Strasbourg, 03/2016
Beijing (THU), 03/2017
Marseille, 05/2018

Shanghai, 04/2019
Zoom, 12/2021
Zhuhai, 11/2023
Bordeaux, 06/2024
TBD, 2025

Location of next 3 FCPPL Workshops -> approved

2027 workshop in China:
CCNU Wuhan



2026 workshop in France:
Lyon - IP2I



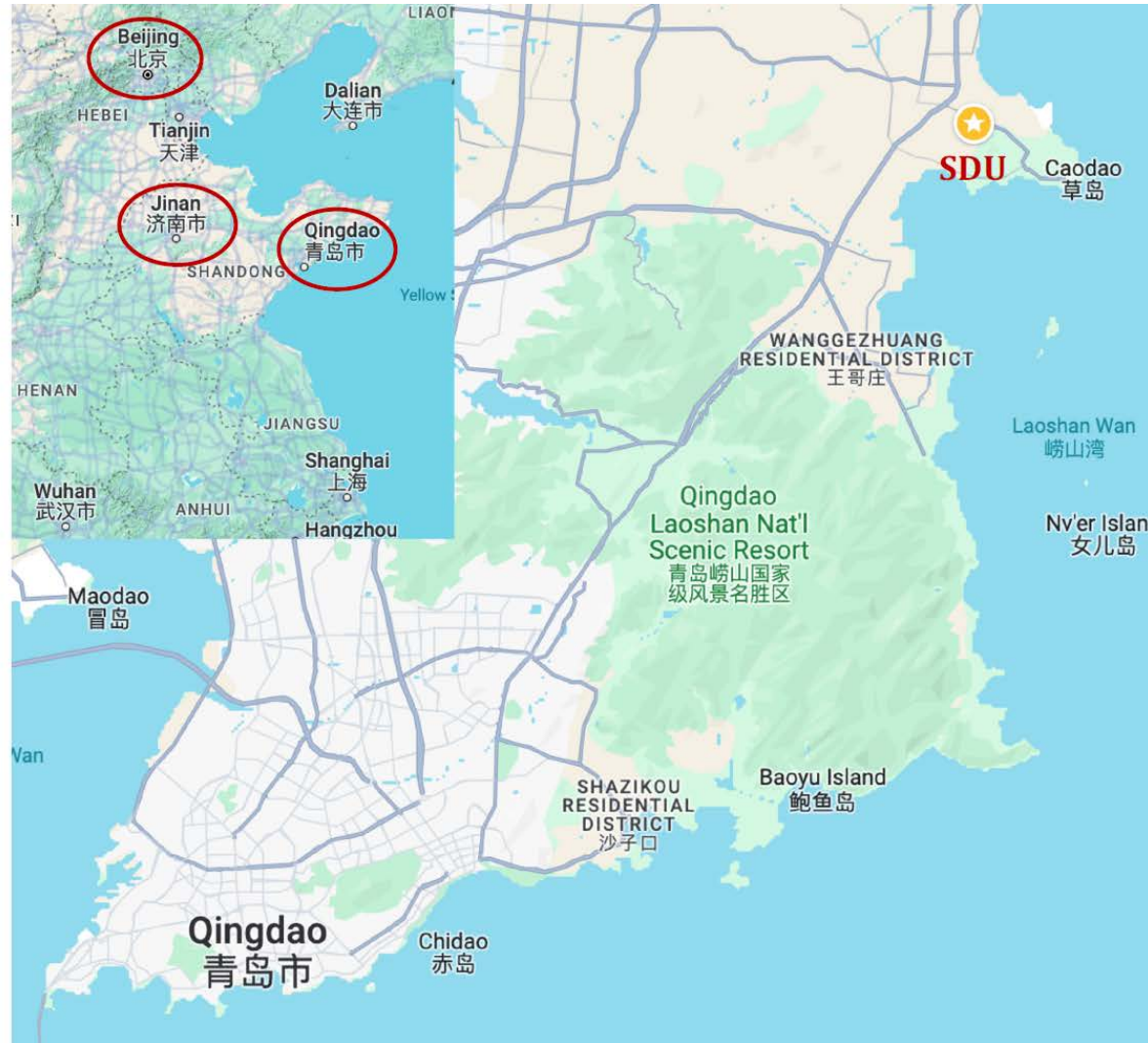
2025 workshop in China:
Shandong University at Qingdao Campus



Qingdao 2025 FCPPN Workshop

Where is Qingdao

- 青岛---Cyan Island, literally
- on China's Yellow Sea coast
- about 650 km southeast of Beijing
 - ◆ ~ 1 hour by air
 - ◆ ~ 3 hours by train
- a popular holiday resort in China
 - ◆ Laoshan National Scenic Resort
 - ◆ sea food
 - ◆ Tsingtao beer
 - ◆
 - ◆ Langya Tai (琅琊台) 70° high spirit!
- Qingdao campus
 - ◆ ~50 km northeast of downtown
 - ◆ 1.5 hours by subway



Qingdao 2025 FCPPN Workshop

Around Campus



Qingdao 2025 FCPPN Workshop

Downtown area



Great thanks to all of you for having made this workshop a success!

A very successful workshop in many ways:

- It was really great to see each other in person in Bordeaux 😊
- Warm thanks and congratulations to the local organizers
You did an outstanding job preparing, organizing and running the workshop! Great organization! Great banquet!
You really made us feel at home 😊
- The quality of the work and talks presented is impressive
Thanks to the speakers, the session conveners and the scientific committee, we had a great program!

Great thanks to CAS, MoST and university groups, and CNRS/IN2P3 for their continuous support! Thanks to LP2iB, CPPM, IP2I and LPCA!

Have a nice trip back home

and see you next year in Qingdao for the FCPPN Workshop!