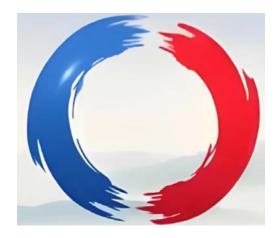




16th France China Particle Physics Network Workshop Qingdao, France on July 21-25, 2025



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

Agenda



- IRN creation
 Governance of the IRN
 Enforcement of stricter rules for PSST
- Projects supported this year
 Fostering of new collaborations
- Towards 2 intertwined "CNRS/CAS + partners" collaborative tools IRN + IRL to keep an active support to projects in general, increase number of French colleagues in China, increase extra funding
- Funding now and in the future
- Location of the next FCPPN yearly Workshop
- AOB

LIA FCPPL created on 10 Apr 2007, renewed in Apr 2011,

again in Apr 2015 and:

24 Jun 2024
CAS President and
CNRS CEO
sign the FCPPN
agreement at CAS
HQ in Beijing



- The aim of the new joint structure is to promote the cooperation between France and China in particle and astroparticle physics between research groups from about 18 French laboratories (14 universities) from all over France and research groups from CAS and from about 23 major universities in China.
- The IRN allows the partners to work together with the best research infrastructures in our fields, to name just a few: LHC experiments at CERN, KM3NeT in France and Italy, CTAO, LSM (Laboratoire Souterrain de Modane) in France; JUNO (Jiangmen Underground Neutrino Observatory), CJPL (China Jinping Underground Laboratory), LHAASO and GRAND in China; SVOM a common Franco-Chinese space mission, ...
- Relevant research fields have a broad spectrum: Particle and Hadronic Physics, Neutrino Physics, Astroparticle Physics and High Energy Astrophysics, Cosmology, Accelerator Physics, together with Theoretical Physics and (accelerator-, detector-, computing-) related technologies to participate in collaborative efforts to better understand the physics of our Universe.

IRN Governance



Steering Committee (ST)

The ST validates the proposal of the BoD for the use of the resources allocated to collaborative projects as well as to the other activities undertaken by the IRN. It is composed of representatives of all institutions contributing to the IRN resources: the director of IN2P3 or his/her representative, the director of IHEP or his/her representative, the director of CPPM (IRN admin. HQ) or his/her representative, and representatives of the governance of the other contributing partners. It is co-chaired by a representative of the Chinese and French parties

Currently: Hesheng CHEN and Imad LAKTINEH

Hesheng CHEN steps down and Yifang WANG appointed

France China Particle Physics Net/Lab

Institue for High Energy Physics, YuQuanLu, Beijing

1988



Thank you Hesheng! and best wishes to Yifang



BEPC & BES and upgrades



FCPPL created on 10 Apr 2007, renewed in Apr 2011, again in Apr 2015 and as FCPPN in 2024





IRN Governance



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.

Currently: Gang CHEN & Eric KAJFASZ (co-directors); Meng WANG (deputy-director); Paola BERTELLI (admin. manager)

The term of the BoD is normally 5-years and related to the duration of the IRN. Both the IRN and the BoD can be renewed.

IRN Governance



Scientific Evaluation Committee (SEC)

The IRN BoD appoints a scientific evaluation committee in charge of the evaluation of the scientific collaborative projects proposed within the IRN. Following this evaluation, the IRN directorate presents a proposal for the allocation of the resources to the Steering Committee.

The evaluation committee comprises an equal number of Chinese and French Scientists, at least four from each country, validated by the SC. 5yr-mandate

SEC members were identified on both Chinese and French sides.

We need to live and comply with the stricter rules related to the Protection of the Scientific and Technical potential (PPST)

We need to have a FSD – IN2P3 – FCPPN discussion to setup a clear PPST validation procedure and timeline for presenting the contents of the projects and the identity of people likely to work on them, ahead of time, so it does not induce time delays.

FCPPN supported projects



Since 2005 – some 100 PhD students shared

2024 - 27 projects supported: 183 k€ requested (FR) and 71 k€ (FR) allocated

2025 - 31 projects to-be-supported: 189 k€ requested (FR) (pending FSD approval)

and 68.5 k€ (FR) distributed (to attend Workshop)

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Polarized Positrons for Next Generation Circular Colliders Compton Sources for future accelerators for particle physics DUPRAZ Kevin UCLab DURAZ Kevin HIEP ACC WAN Livin HIEP ACC UCVE Paschal MARTINSA Aurelien UCLab DURAZ Revin HIEP ACC UCVE Paschal MARTINSA Marelien UCLab DURAZ Revin HIEP ACC UCVE Paschal MARTINSA UCVE UCQUAN Zhe HIEP ACC UCVE Paschal MARTINSA UCVE UCQUAN Zhe HIEP ACC UCVE Paschal MARTINSA UCVE UCQUAN Zhe HIEP ACC UCVE Paschal MARTINSA UCVE UCQUAN UNACO ACO UCVE Paschal MARTINSA UCVE UCQUAN UCQUAN UCQUAN UCQUAN HIEP ACC UVEQUAN UVEQUAN HIEP ACC UVEQUAN HIEP ACC UVEQUAN UVEQUAN HIEP ACC UVEQUAN HIEP A	TITLE	PI FR	Lab FR	PI CN	Lab CN	TYPE
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Multi-messenger study with KM3NeT the Giant Radio Array for Neutrino Detection: GP300 stage ANGADIANA AN	Higgs production at FCC-ee and CepC and feasibility experimental study in current low-energy e+e- colliders					ACC
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Exploring t-channel charm-philic dark matter scenarios FUKS Benjamin LPTHE LIU Bingxuan SYSU THE	Physics at LHC with the ATLAS detector	MONNIER Emmanuel	СРРМ	JIN Shan	NJU	PPA
	Bc studies and upgrade of ECAL for LHCb	ROBBE Patrick	IJCLab	ZHANG Liming	THU	PPA
Quarkonium studies at the LHC and future facilities SHAO Hua-Sheng LPTHE MA Yanqing SJTU THE	Exploring t-channel charm-philic dark matter scenarios	FUKS Benjamin	LPTHE	LIU Bingxuan	SYSU	THE
	Quarkonium studies at the LHC and future facilities	SHAO Hua-Sheng	LPTHE	MA Yanqing	SJTU	THE

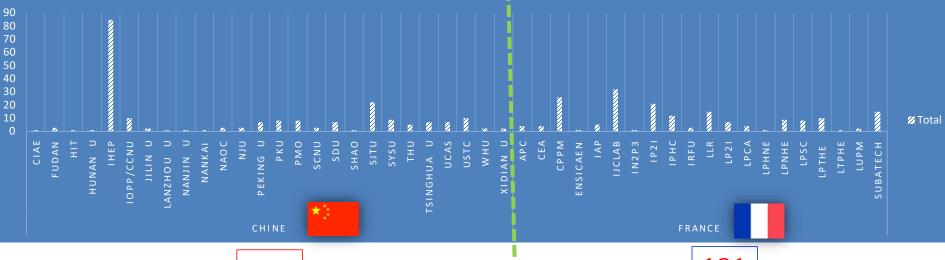
Next Call for Proposal: Dec 2025

Projects supported in 2025



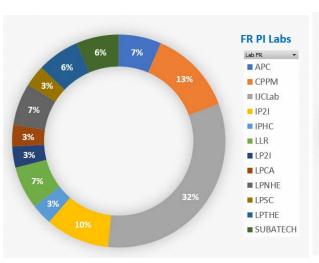


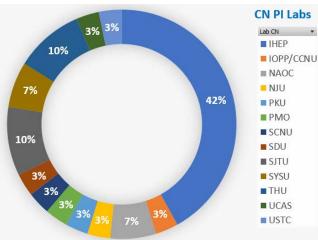


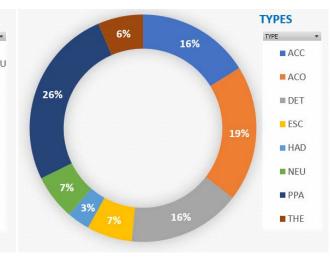


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Since last year, fostered emergence of new collaborations...



FCPPN: a vibrant framework to allow the community to brain storm, setup and implement new projects and collaborations aiming at making breakthroughs in understanding the physics of the Universe

- R&D for future detectors in connection to ECFA DRDs @CERN
- Developments within DRD4@CERN for photo-detection between IP2I and Xi'an
- R&D for computing and advanced methods and tools for high energy physics
- Collaborations on submarine neutrino telescopes and their environments (IHEP, SJTU, SYSU,...) with KM3NeT (CPPM, APC, IPHC,...)
- Develop a project between LST (Large Telescopes for CTAO) and LHAASO collaborations to better study Pevatrons between CPPM (LST) and IHEP (LHAASO)
 With possible synergy with the neutrino telescope projects as well
- Collaborative analysis projects on SVOM (already started w/ IHEP and LUPM; more?),
 New projects on GW detectors and data analysis,
 New project on large cosmological surveys

IRN + IRL



FCPPN: International Research Network (IRN) that we want to combine to an International Research Lab (IRL) hosted on the IHEP Campus in Beijing.

A new combined Research Structure involving over 460 collaborators all over China and France

Two intertwined CNRS collaborative tools

IRN: to make emerge and actively support collaborative projects in general and an

IRL: to increase support to activities

deployed in China; host French colleagues

visiting Chinese labs for longer periods of

time; enhance the possibility of submitting

proposals to calls for extra funding



FCPPN

Agreement signed by CAS and CNRS on 25 Jun 2024

FCPPLJoint Lab with walls @IHEP in Beijing

More specifically for experiments deployed in China like...

- Neutrinos (JUNO, Submarine neutrinos,...)
- Cosmic/Gamma Rays, Dark Matter
- Future colliders and detectors

Access to funding programs that are not possible with an IRN

Paperwork will be finalized by Gang & Eric just workshop for an implementation in November 2025

Funding available for the IRN



Already available now

- Direct funding
 - CNRS (IN2P3): 60 k€ in 2024 and 70k€ en 2025 (used to be 85k€ before CoVid)
 - Same budget met (and even more) by Chinese teams involved
- CSC grants:
 - 3-yr CSC grants (not necessarily co-tutored PhD thesis btw CN and FR teams)
 - 2-yr CSC grants for co-tutored PhD theses btw CN and FR teams
 Possibly completed by an Eiffel grant
- French Embassy in China (~ 3*15k€):
 Workshop CEPC 2024 in Marseille (from budget obtained in 2020), Workshop ALICE 2024 in Wuhan, Workshop FCPPN 2025 in Qingdao
- Need to use more thoroughly the Cai Yuanpei programmes ("Découverte", "Tremplin", "Doctorants", "Partenariat Hubert Curien") from the French Embassy:
 https://cn.ambafrance.org/programmes-de-cooperation-scientifique-et-universitaire
- Gang CHEN (FCPPN co-director) managed to get extra funding from grants from CAS and MoST to establish the IRL

Funding available after IRL created?



Hopefully available in the near future

- Apply to Marie-Curie EU Calls
 - In particular MSCA Staff Exchanges and MSCA Doctoral Networks
 - In addition to CN and FR since 3 EU or EU-associated countries are required, exploring to have Italy, Spain, Germany and/or UK interested and involved?
- Apply to some possible specific call from CAS and MosT?
- Hopefully get from time to time CNRS funded or co-funded PhD and Postdoc grants
- Have the French Universities involved contribute to the direct budget of the structures
- Other ideas? ...

30th Anniversary of CNRS Beijing Bureau



3-day long event in Nov 2025 in Beijing

- Nov 3rd: Event at the French Embassy in Beijing
- Nov 4th: Mini-workshops on 3 specific domains
 - Atmospheric Chemistry
 - Biological Imaging
 - Particles, Astroparticles and Cosmology (FCPPN)



Fermin CuevasNew Director

- Nov 5th: Focus on collaborations with PKU
 - 4 FCPPN projects with PKU collaborators; 2 with PKU co-PI
 - Kuang-Ta Chao (PKU) & Hua-Sheng Shao (LPTHE)
 - Qiang Li (PKU) & Claude Charlot (LLR)
- Workshop on FCPPN perimeter could be up to 6 hour long, discuss few topics to define some specific actions that we would like to boost within the next 3 years
 The IRL could consolidate and organize these actions, as baseline of the scientific roadmap of the IRL
- Will try to take this opportunity to also have the signature of the creation of the IRL in Beijing by CAS president and CNRS CEO

30th Anniversary of CNRS Beijing Bureau



3-day long event in Nov 2025 in Beijing

Proposal: focus the mini-workshop on axes of the to-be-created IRL

- By Friday we should have:
 - Lists of topics

Future colliders and detectors;

Neutrinos;

Multi-messenger High Energy Astro-particle/physics

CNRS bureau prefers limited number of attendees
 20-30 colleagues from China

~ 10 colleagues from France

[FCPPN expected to cover expenses of 4 of them]

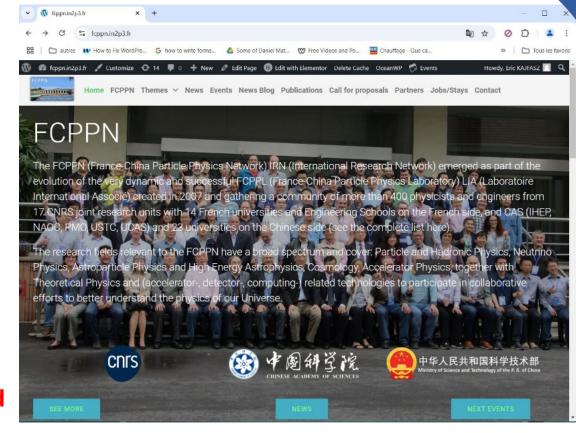


France China Particle Physics Network

New Web site: https://fcppn.in2p3.fr/
Please send comments, news, etc... to improve it and make it useful

Next workshops:

- 2026 in France Lyon ongoing selection of dates given local availability of rooms. We'll keep you posted
- 2027 in China Wuhan
- 2028 in Clermont-Ferrand
- 2029, 2030, are they candidates?



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 meet with so many of you (175 including 40 from Europe) in Qingdao! ©



- Great thanks to Prof. Wang Meng and our SDU colleagues for hosting the 16th edition of the FCPPN Workshop!
 You really made us feel at home (如家)! ☺
- You did an outstanding job and raised the bar really high in preparing, organizing and running the workshop!
 Great organization! Awesome banquet!

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



A very successful workshop in many ways:

- The quality of the work and talks presented is impressive

Thanks to the speakers, the session conveners and the scientific organizing committee. We had a great and wide-spectrum program!

Great thanks to CAS, MoST and university groups, CNRS/IN2P3 and the French Embassy for their continuous support!

Have a nice trip back home and see you next year in Lyon for the FCPPN Workshop!