



17th Workshop of the

FCPPN/L

France-China Particle Physics Network and Laboratory

Lyon, France • 29 June – 3 July 2026



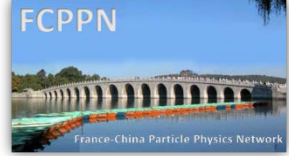
17th France China Particle Physics Network Workshop

Lyon, France, 29 June – 3 July, 2026

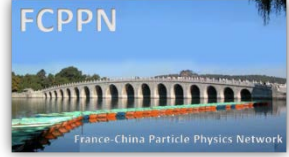
- Short « just-out-of-the-oven » minutes of the Steering Committee
- Wrap-up

Agenda

- FCPPN status
- Venues of the next FCPPN Workshops
- FCPPL laboratory
- AOB



Since last year, continue fostering emergence of new collaborations...

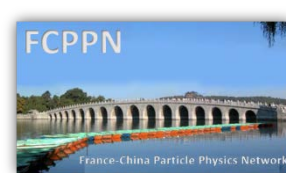


FCPPN: a vibrant framework to allow the community to brain storm, setup and implement new projects and collaborations aiming at making breakthroughs in understanding the physics of the Universe

- R&D for future detectors in connection to ECFA DRDs @CERN
- Advances on collaboration between CEPC and FCC-ee accelerator communities
- Towards R&D for computing and advanced methods and tools for high energy physics
- Some collaborative efforts on submarine neutrino telescopes and their environments (IHEP, SJTU, SYSU,...) with KM3NeT (CPPM, APC, IPHC,...)
- Project between LST (Large Telescopes for CTAO) and LHAASO collaborations to better study together Pevatrons between CPPM, APC, Paris (LST), and IHEP (LHAASO)
With possible synergy with the neutrino telescope projects as well
- Project on new GW detectors
- New project on 5th generation large cosmological survey: MUST

Since 2005 – some 100 PhD students shared

FCPPN projects

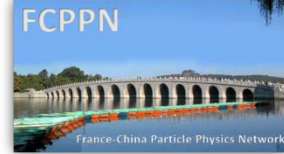


#projects 2024 2025 2026
27 31 41

Acronyme	Titre	PI français	Laboratoire	PI chinois	Laboratoire Ch
CharmedDM	Exploring t-channel charm-philic dark matter scenarios	FUKS Benjamin	LPTHE	LIU Bingxuan	SYSU
MultiBoson	Multi-boson Physics at LHC and future machines	CHARLOT Claude	LLR	LI Qiang	PKU
aGUT	Asymptotic grand unification and phenomenology	DEANDRA Aldo	IP2I	WANG Zhi-Wei	UESTC Chengdu
BcECAL2LHCb	Bc studies and upgrade of ECAL for LHCb	ROBBE Patrick	IJCLab	ZHANG Liming	THU
4TOPNEW	Advanced measurement of four-top-quark production and search for new physics at the LHC	DELIOT Frédéric	CEA Paris-Saclay	LI Liang	SJTU
JUNOTT	Operation and maintenance of the JUNO Top Tracker	ATHAYDE MARCONDES DE ANDRÉ João Pedro	IPHC	YANG Changgen	IHEP
BEPCII MONOCHROM	Feasibility study of an experimental demonstration of a monochromatization scheme in the e+e- BEPCII at IHEP	FAUS-GOLFE Angeles	IJCLab	WANG Dou	IHEP
PICMIC	ASIC development for strip-pixel sensor	BECHETOILLE Edouard	IP2I	ZHANG Liang	SDU
JUNO ASTRO	Monitoring astrophysical sources with JUNO	SETTIMO Mariangela	SUBATECH	LI Yufeng	IHEP
CTFF	COMET Track Finding and Fitting	DA SILVA Wilfrid	LPNHE	LI Haibo	IHEP
FCCP	Future Colliders Compton Polarimeters / France China Compton Polarimeters	MARTENS Aurélien		DUAN Zhe	IHEP
KATANA	KM3NeT And TRIDENT for Astrophysical Neutrino Analyses	KOUCHNER Antoine	APC	XU Donglian	SJTU
ComSource	Compton Sources	DUPRAZ Kevin	IJCLab	YAN Lixin	THU
GRAND	The Giant Radio Array for Neutrino Detection: GP300 stage	MARTINEAU Olivier	LPNHE	ZHANG Yi	PMO/MOST
STABLE	High Level Trigger at the Belle II experiment	TRABELSI K	CPPM	ZHOU Qidong	Shandong University
cLEAN	E: Interference cleaning for gravitational wave detectors	FLAMINIO R.	LAPP	WANG M.	BNU
Gamma_hhpizero_LHCb	Measurement of the CKM angle ϕ_1 in Bs decays and testing CP violation in hadron B to h+ h- π^0	TISSERAND Vincent	LPCA	QIAN Wenbin	UCAS
VTX4B2	Development of the upgraded Belle II vertex detector	BAUDOT Jérôme	IPHC	LU Yunpeng	IHEP
CO-GAIN	Collaborative Initiative for GAIN layer in MAPS	KACHEL Maciej	IPHC	SUN Xiangming	CCNU
JUNO – NMO	Measurement of neutrino mass ordering (NMO) with JUNO	BONGRAND Mathieu	SUBATECH	HUANG Juntong	SJTU
MIMAC-CEvNS	Coherent Elastic Neutrino Nucleus Scattering with MIMAC	MALEK Fairouz	LPSC	Fei GAO	THU
EPDET	an SiW-ECAL optimized for e+e- collisions	BRIENT Jean-Claude	LLR	RUAN Manqi	IHEP
Neutrons_JinPing	Neutron Background characterization at JinPing	MALEK Fairouz	LPSC	YUE Qian	THU
AQUA	Associated QUArKonia production	MIZUK Roman	IJCLab	LI Hengne	SCNU
Quarkonium4AFTER	Quarkonium and quarkonium analogues studies at the LHC and future facilities	SHAO Hua-Sheng	LPTHE	MA Yan-Qing	Peking Univeristy
TCCAL	Calorimeter for future tau-charm factory	BARSUK Sergey	IJCLab	PENG Haiping	USTC
LHCbQQQ	Charmonia in LHCb	BARSUK Sergey	IJCLab	HE Jibo	UCAS
JUNO-SPMT	The JUNO Small Photomultipliers Tube (SPMT) system	PERROT Frédéric	LP2I	HE Miao	IHEP
LICAR	LHC-IHEP-CPPM-ATLAS-detectorRnD	BARBERO Marlon	CPPM	WEI Wei	IHEP
TIANLAI	21cm Intensity mapping with Tianlai	PERDEREAU Olivier	IJCLab	CHEN X.	NAOC
PAP_ZHANG_BASTID_ALICE	Study of QCD matter with the ALICE detector	BASTID Nicole	LPCA	ZHANG Xiaoming	CCNU
LHCbUP	R&D for CMOS-based detector in LHCb tracking for HL-LHC	GUITTIERE M.	SUBATECH	WANG Jianchun	IHEP
PAP_SJTU_APC_HHPS	Search for HH production at the LHC	BERNARDI Gregorio	APC	YANG Haijun	SJTU
LUMINOSITY_AND_INJECTION_AT_E+E-COLLIDERS	Luminosity and injection background at SuperKEKB and future e+e- colliders	BAMBARDE Philip	IJCLab	GAO Jie	IHEP
LHC-IHEP-CPPM-ATLAS	Physics at the LHC with the ATLAS detector and associated developments	MONNIER Emmanuel	CPPM	JIN Shan	NJU
FC-COSMOS	ance-China COSmology with Multi-Object Spectroscopy	GILLARD William	CPPM	ZHAO Cheng	THU
COMPUTING_V4	TECHNOLOGIES OF HEP EXPERIMENTS DATA	KAUFASZ Eric	CPPM	QI Fazhi	IHEP
PhotoDec	Development of a new generation of MP-based photodetectors	LAKTINEH Imad	IP2I	CHEN Ping	XIOPM
SDHCAL	Development of the Semi-Digital Hadronic Calorimeter	LAKTINEH Imad	IP2I	YANG Haijun	SJTU
CMSHIGPHO	E: Higgs boson discovery and measurement with photons in CMS	GASCON Suzanne	IP2I	CHEN Guoming	IHEP

Still processed by FSD - Next Call for Proposal: September 2026

Projects submitted in 2026

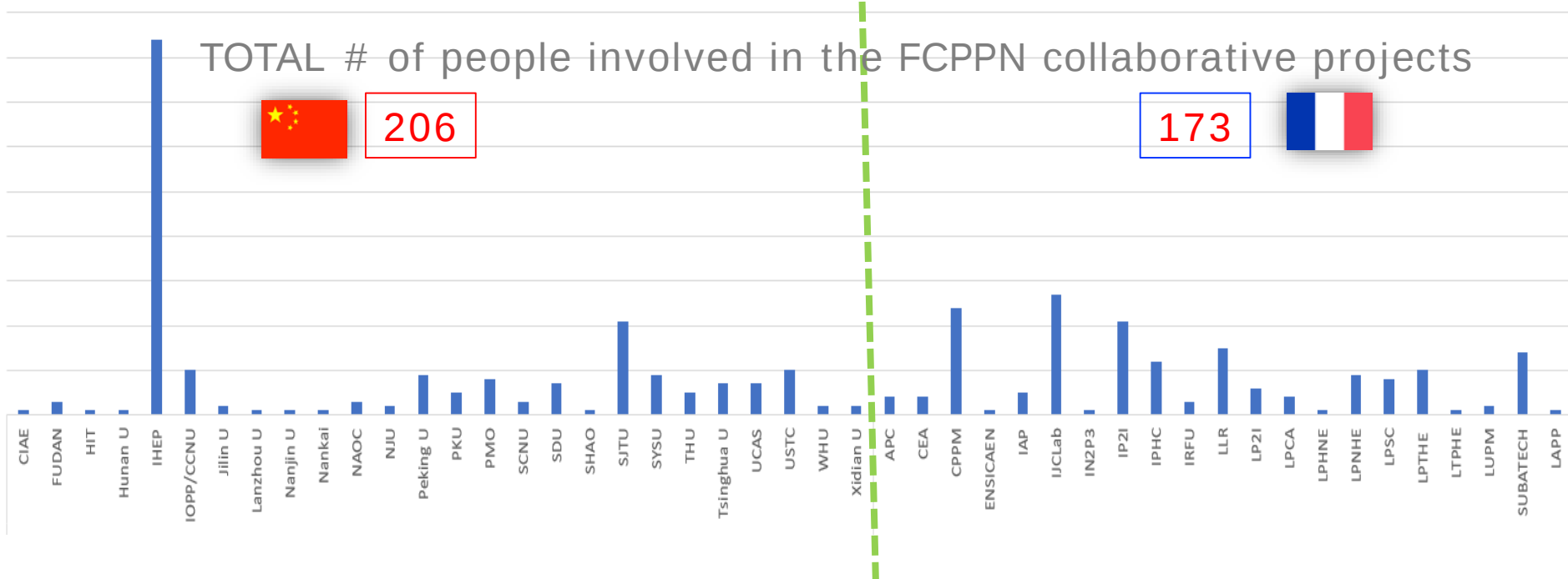


TOTAL # of people involved in the FCPPN collaborative projects



206

173



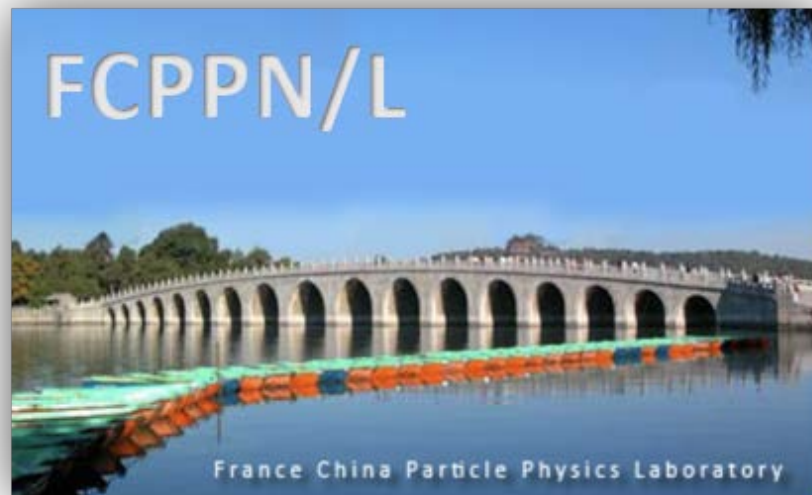
2026 French side budget: 51k€

- participation to fees+travel+stay of French participants to FCPPN workshop: 36k€
- participation to FCPPN organization: 5k€
- Remains to be distributed: ~ 10-15k€

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

Numbers and Facts over 460 members!

- **Web sites:** fcppn.in2p3.fr
Mailing-list: FCPPL-L@in2p3.fr
~ 30 collaborative projects funded each year
- **Yearly Workshop:**
5 day long
100+ participants
lively, dynamic and friendly community



Beijing (IHEP) 12/2006 (to prepare LIA 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

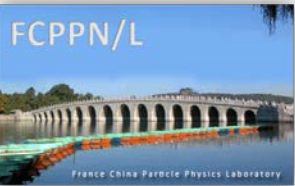
Zhuhai, 11/2023

Bordeaux, 06/2024

Qingdao, 07/2025

Lyon, 06-07/2026

Wuhan, 2027



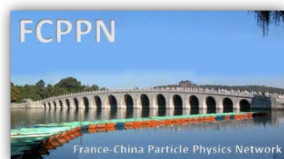
FCPPN/L Workshop 2027

Back to Wuhan – 18 years later!...



Now bear with me for a while longer...

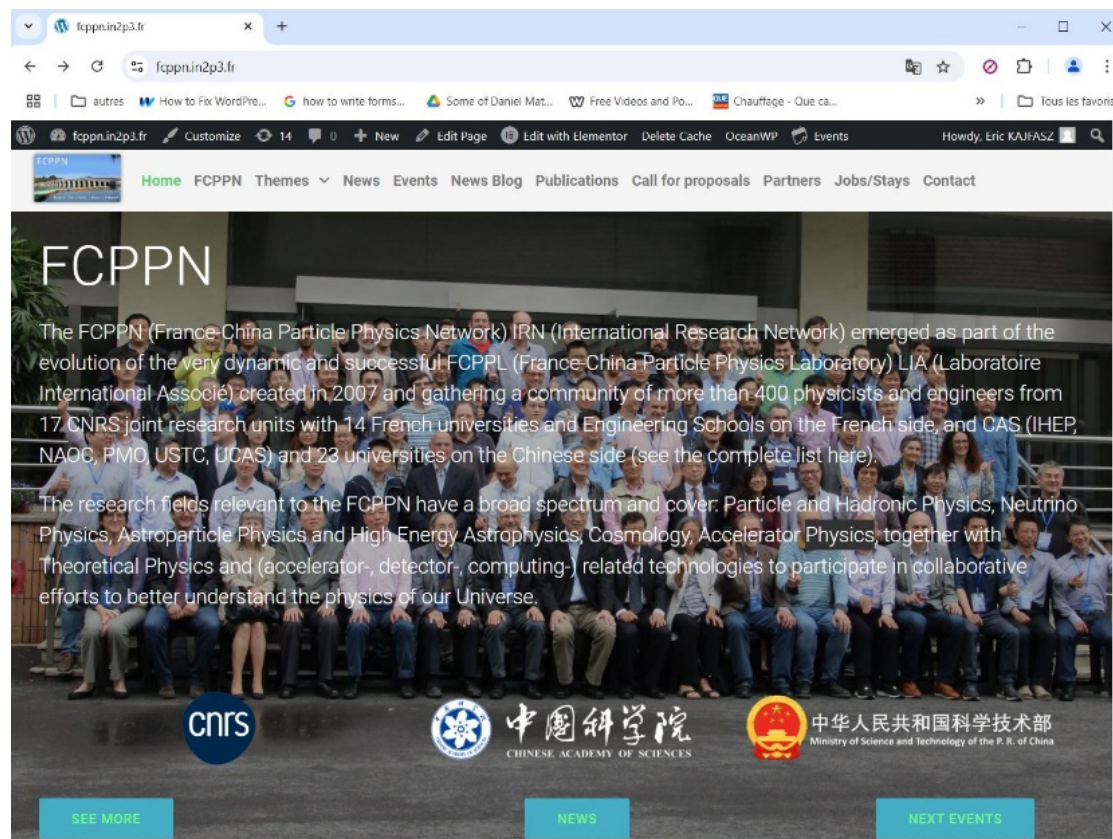
- $18 = 9 + 9$ *i.e.* 99
 $9 = 九 = jiǔ$
- But $jiǔ$ also = 久 = **for a long time**
So 99 could be interpreted as
a good approx. of **For ever!** 😊
- Btw, $jiǔ$ also = 酒 = **wine, liquor**
So 99 could be interpreted as
Worth to properly celebrate! 😊



France China Particle Physics Network

FCPPN web site:

<https://fcppn.in2p3.fr/>



Next workshops:

- **2027 in China – Wuhan**
Still need to select dates
- **2028 in France – Clermont-Ferrand**
- **2029 in China, Shanghai**
- **2030 in France – Strasbourg**

CCNU application for hosting the FCPPN/L 2027 in China

**Daicui Zhou and Xiaoming Zhang
for the ALICE-CCNU team**



Central China Normal University (CCNU)



A prestigious comprehensive institution renowned for its top-tier educators training and high-level research in both humanities and sciences

Wuhan CCNU campus



Conference room for >200 people



Accommodation

Guiyuan Hotel (on campus), 184 rooms



Canteen



Local services: coffee break, meals (lunch, dinner, reception, and banquet), excursion organization, shuttles from and to the airport or railway

Introduction to Wuhan



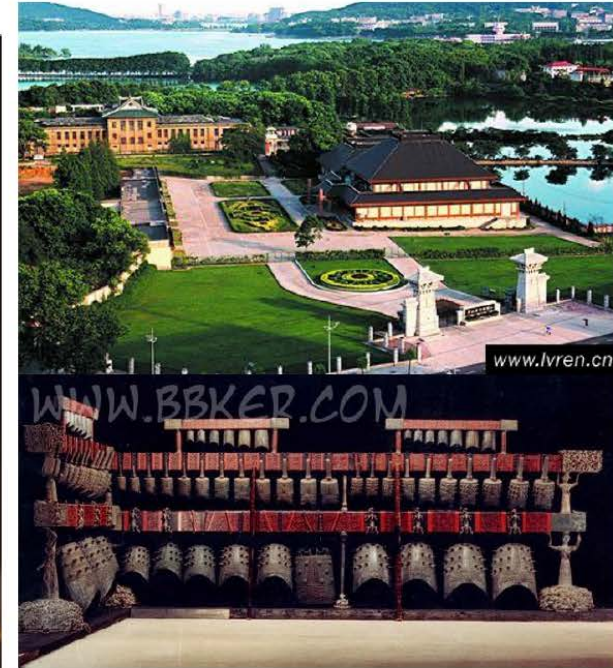
East Lake



Night scene of riverside



Yellow Crane Tower



Hubei Museum

Ancient bell > 2000 years

Travel to Wuhan



Railway map of People's Republic of China

Colored lines showing CRH and other high speed rail services

Last update: 2018-01-15



- Direct flight connections via
 - ➔ **Beijing**: 22 flights/day
 - ➔ **Shanghai**: 17 flights/day
 - ➔ **Guangzhou**: 20 flights/day
- ...and many other cities around
- Around 4 hours of high-speed train connection from and to most Chinese cities
- ➔ >35 trains/day individually from **Beijing** and **Shanghai**

Workshop dates

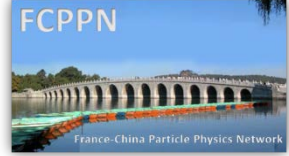


Tentative proposals

- Last week of **April (26–30)**, before national holiday
- End of **October (25–29)**, after SQM in Hefei

➔ **Looking forward to seeing all your suggestions**

IRN + IRL: 2 ≠ structures for 2 ≠ purposes



FCPPN an International Research Network (IRN)
that to be combined with

FCPPL 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: a network to make emerge and
actively support collaborative projects

IRL: a real joint laboratory 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**

IRN + IRL

FCPPN



**Prepare change in
coordination/direction
on the French side**

FCPPL Joint Lab with walls @IHEP in Beijing

More specifically for experiments deployed in China

- Neutrinos Physics
- High Energy Astro-particles/physics and cosmology
- Future of Accelerators, Detectors, and Data Science for High Energy Physics

Access to funding programs not possible with an IRN

IRL FCPPL

FCPPL office conveniently located on the 3rd floor of the main building in the Beijing campus of IHEP, 19B Yuquan Road, Beijing 100049, China.



One office (Main building A301; next to IHEP Director's office) and some open office space close by to host visitors from France, are provided by IHEP to start the activities of the IRL, with possibility to consider an extension if needed and agreed by both parties.

We will also build a dedicated web site, finalize a logo...

We even have a chengyu (Chinese idiomatic 4-character expression):

同心协力 - (tóngxīnxiélì) same heart join forces



Start the IRL... Research topics (1)

Neutrino Physics

The IRL will support (on the signature date of the Agreement):

in particular with the JUNO experiment, the IRL aims at reinforcing this collaboration and attracting more French colleagues to China in order to participate in the commissioning and the operation of the detector, and at maximizing the return on the exploitation of the recorded data, not only to achieve the world best measurements in terms of neutrino properties but also be ready for any MeV energy-range neutrino astronomy event that could occur during the operation of the detector.

Consequently, the support of the IRL to JUNO is then more specifically targeted towards:

- precision measurements
- SN-like event detection and study
- Simulation of the detector
- Operation of the detector

Contact persons (on the signature date of this Agreement)

Marcos DRACOS, IPHC (Strasbourg)

Mariangela SETTIMO, SUBATECH (Nantes)

Miao HE, IHEP (Beijing)

Yue MENG, SJTU (Shanghai)

Start the IRL... Research topics (2)

High Energy Astro-particles/physics and cosmology

The IRL will support (on the signature date of this Agreement):

GRAND: Giant Radio Array for Neutrino Detection, for cosmogenic neutrinos et hunt for transient sources), including activities to:

- Maintain China-French collaboration as the pillar of GRAND work
- Develop combined analysis for GP300
- Work on GP300 site (deployment, calibration, commissioning)
- Work in common on R&D for next phase of GRAND

LHAASO-LST: to unveil the nature of the PeVatrons detected by LHAASO using CTAO-LST, benefiting from both the sensitivity of LHAASO and the high resolution of LST: developing common analysis tool (combining low level data of LST + LHAASO with gammapy) and performing joint Pevatron analyses. Act as a first step towards more joint analyses.

Contact persons (on the signature date of the Agreement)

Olivier MARTINEAU, LPNHE (Paris)

Heide COSTANTINI, CPPM (Marseille)

William GILLARD, CPPM (Marseille)

Daniel SANTOS, LPSC (Grenoble) – Dark Matter

Zhen CAO, IHEP (Beijing)

Hua FENG, IHEP (Beijing)

Zhimin WANG, IHEP (Beijing)

Pengfei ZHANG, Xidian Univ. (Xi'an)

Start the IRL... Research topics (3)

Future of Accelerators, Detectors, and Data Science for High Energy Physics

The IRL will support (on the signature date of this Agreement):

Accelerators for the future, such as:

- polarization for future e+e- colliders in connection to upgraded BEPC and THU infrastructures
- R&D on thermal treatment for improving the performance and sustainability aspects of SRF

Contact persons (on the signature date of the Agreement)

Angeles FAUS-GOLFE, IJCLab (Orsay) - Accelerators

Jie GAO, IHEP (Beijing) - Accelerators

Detection and data acquisition & processing techniques (hardware and software)

for upgrades of or future particle and astroparticle physics experiments: support to:

- detector prototype building and testing
- preparation of common tools and tests
- technological monitoring and establishing contacts with Chinese labs/companies

Contact persons (on the signature date of the Agreement)

Christine HU-GUO, IPHC (Strasbourg) – Tracking/vertexing Detectors

Imad LAKTINEH, IP2I (Lyon) – Other Detectors

Catherine BISCARAT, L2IT (Toulouse) – Data Science

Julien ZOUBIAN, CPPM (Marseille) – Data Science

Yunpeng LU, IHEP (Beijing) - Tracking/vertexing Detectors

Ping CHEN, XIOMP (Xi'an) - Other Detectors

Fazhi QI, IHEP (Beijing) – Data Science

Yaodong CHENG, IHEP (Beijing) – Data Science

Start the IRL...

Management of the Laboratory

On the signature date of this Agreement, the Director of the Laboratory is Eric KAJFASZ. The Director is assisted by a deputy director of the Laboratory (“Co-Director”), who, on the signature date of this Agreement, is Gang CHEN. Their term is 5 year.

Steering Committee

The Laboratory has a Steering Committee, composed of

Two members and subsequently acceding members representing the Parties, with entitlement to vote:

- At CNRS: the Director of CNRS Nuclei & Particles (IN2P3) or his/her representative;
- At IHEP: the Director of IHEP or his/her representative

The Director and the Co-Director assist the Steering Committee in an advisory capacity.

Laboratory Council

A General Assembly composed of the all staffs is put in place as a Laboratory Council.

Start the IRL...

On the signature date of this Agreement

FCPPL members

Researcher	Function	Laboratory	Institution
Eric KAJFASZ	Director	IRL FCPPL	CNRS-IN2P3
Gang CHEN	Co-Director		IHEP
Jingyi ZHAO	Secretary		IHEP

Meng WANG	Contact with Chinese Universities	Shandong Univ.	

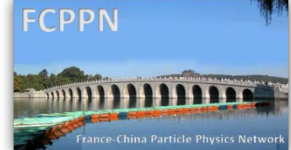
The success of the lab will also depend on the number of French people coming to the lab for long periods of time.

Please let Gang and I know in advance if you plan to do so, so we can prepare for your stay to be as efficient and pleasant as possible 😊

Funding for the IRN or IRL

- **Direct funding**
 - CNRS (IN2P3)
 - Budget met (and sometimes even more) by Chinese teams involved
- **CSC grant**
 - 3-yr CSC grants (not necessarily co-tutored PhD thesis between CN and FR teams)
 - 2-yr CSC grants for co-tutored PhD theses btw CN and FR teams
Possibly completed by for example an Eiffel grant
- **CNRS – K.C. Wong Education Foundation Postdoctoral Fellowships** – submitted 2026
 - Gravitational waves – PI: R. Flaminio / LAPP – Beijing Normal University
 - Submarine neutrino detectors – PI: P. Coyle / CPPM - SYSU
- **French Embassy in China - Cai Yuanpei programmes**
 (“Découverte”, “Tremplin”, “Doctorants”, “Partenariat Hubert Curien”):
<https://cn.ambafrance.org/programmes-de-cooperation-scientifique-et-universitaire>
 - 1 PHC on photodetectors PI: I. Laktineh / IP2I – CAS/XIOPM
 - FCPPN Will apply next year to support travel+stay costs related to FCPPN/L Workshop

Funding for IRL



Hopefully available in the near future...

- **Apply to Marie-Curie EU Calls**
 - In addition to **CN** and **FR** since 3 EU or EU-associated countries are required, **Italy and UK are interested**
 - **MSCA - Staff Exchange** on detectors lead by Italy...
 - **MSCA - Staff Exchange** on accelerators...
 - **MSCA – Joint Doctorate Network** – I will coordinate the writing of the application to be submitted later this November
- **Apply to some possible specific call or grants from CAS, Most, NSFC**
- Hopefully get from time to time **CNRS funded or co-funded PhD and Postdoc grants**
- **We are currently working on trying to have:**
 - a (joint) PhD student to start on JUNO
 - a postdoc and possibly a (joint) PhD student to start on LHASSO-LST

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 (over 120 registered participants ~ 50-50 from China-France) in Lyon! ☺



- Great thanks to Antonio, Gerald, Imad, Suzanne, and our IP2I colleagues for hosting the 17th edition of the FCPPN Workshop!
- You did an outstanding job 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!

If you have ideas of concrete actions for AI, please add them to the framapad shared document started by Julien Zoubian:

https://jzoubian.pages.in2p3.fr/slides/20260702_FCPPN_workshop_AI_round_table/#/5

If you are planning a long stay in China, please let Gang and I know.

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

Thanks to the local authorities (Villeurbanne, Region) and to Université Lyon 1 for their support!

Have a nice trip back home

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