



INSTR 2026

October 12–16, 2026 Hefei | China

Closing remarks

Alexander KUZMIN, Budker INP, Novosibirsk



**INSTR-2026
Hefei, China.**

INSTR conference history

The conference series grew out of cooperative seminars and meetings between the Budker Institute of Nuclear Physics (BINP) in Novosibirsk, USSR, and the Stanford Linear Accelerator Center (SLAC) in the United States.

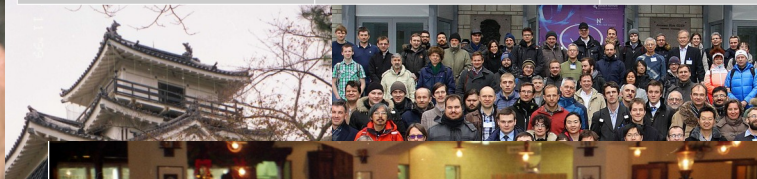
The first conference on instrumentation for e⁺e⁻ colliding beam was held in 1977 at BINP in Novosibirsk. Physicists from SLAC and other countries came to BINP and there were many presentations and fruitful discussions. It was decided to have periodic conference.



The conference history



Conference	Date	Place
1st(INSTR 1977)	17-23.09.1977	BINP, Novosibirsk, USSR
2nd(INSTR 1982)	17-23.02.1982	SLAC, Stanford, USA
3rd(INSTR 1984)	15-21.03.1984	BINP, Novosibirsk, USSR
4th(INSTR 1987)	09-13.03.1987	SLAC, Stanford, USA
5th(INSTR 1990)	15-21.03.1990	BINP, Novosibirsk, USSR
6th(INSTR 1996)	29.02-6.03.1996	BINP, Novosibirsk, Russia
7th(INSTR 1999)	15-19.10.1999	Hamamatsu, Japan
8th(INSTR 2002)	28.02-6.03.2002	BINP, Novosibirsk, Russia
INSTR 2008	28.02-5.03.2008	BINP, Novosibirsk, Russia
INSTR 2014	24.02-1.03.2014	BINP, Novosibirsk, Russia
INSTR 2017	27.02-3.03.2017	BINP, Novosibirsk, Russia
INSTR 2020	24-28.02.2020	BINP, Novosibirsk, Russia
INSTR 2026	12-16.10.2026	USTC, Hefei, China



INSTR2026

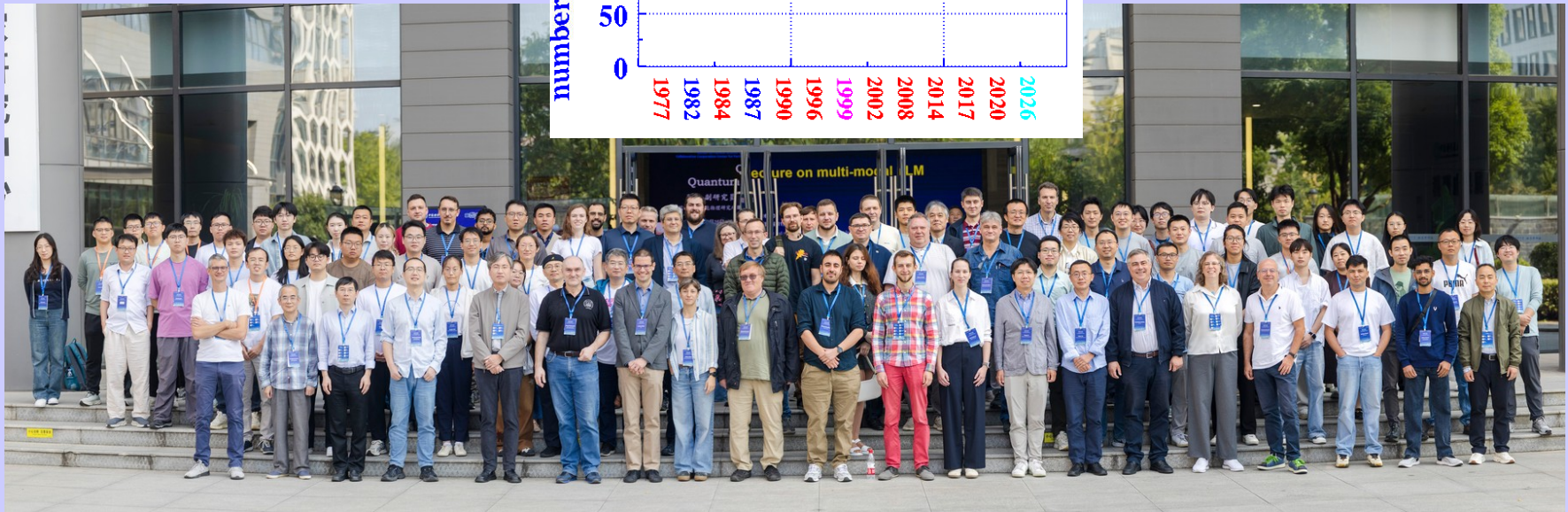
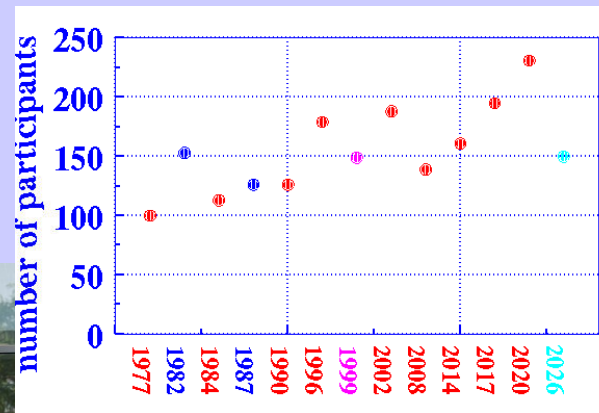


This time, the instrumentation conference on instrumentation for colliding beam experiments was held here in China at Hefei at USTC first time!

It was great success!!!

We spent five days attending interesting presentations and participating in productive discussions

- Number of participants 150



- We listened 14 excellent invited talk + 68 oral presentation
- We could review and discuss 36 poster presentations

Many thanks to the organizing committee for their friendly and efficient work!

Airport welcome and assistance

Dayly transportation

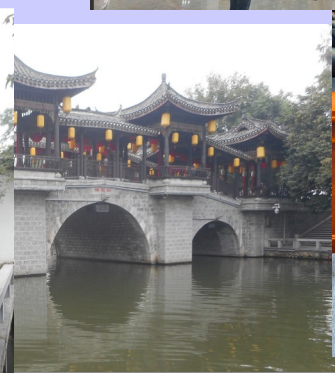
Registration

Coffee breakes

Delicious lunches and dinners

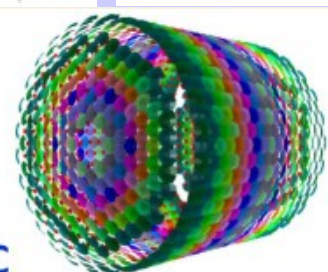
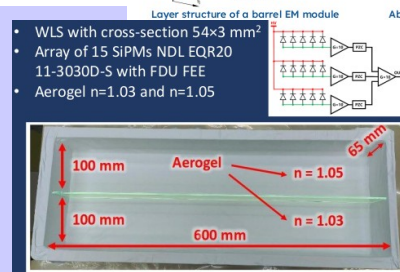
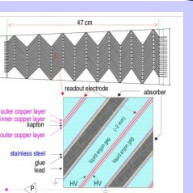
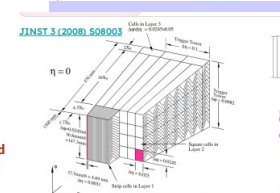
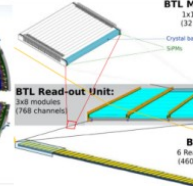
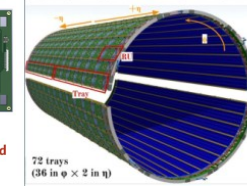
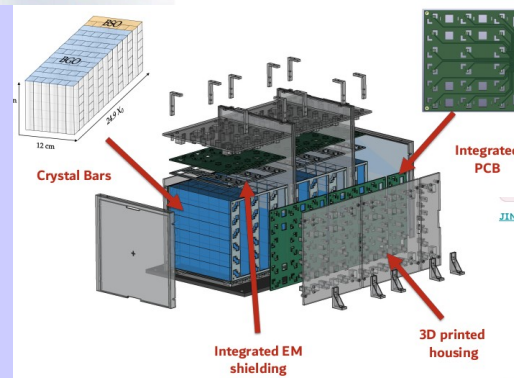
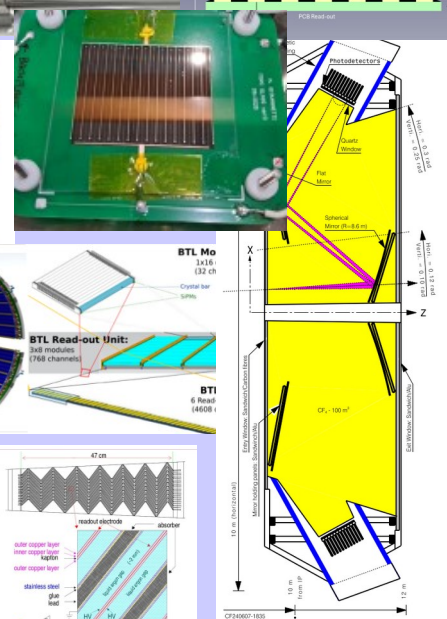
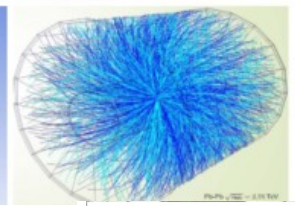
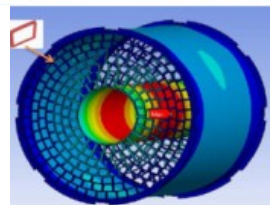
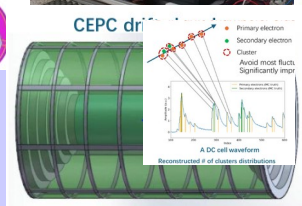
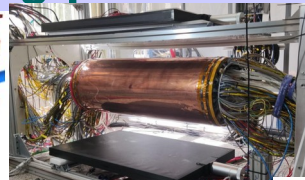
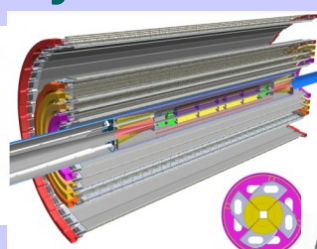
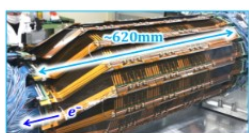
Excellent banquet

Social program

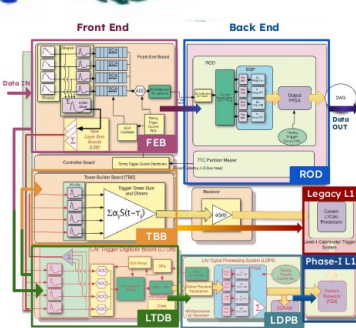
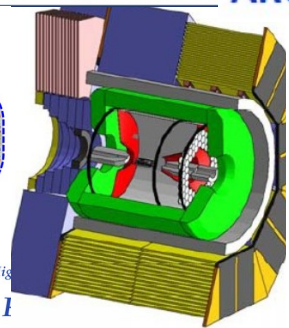
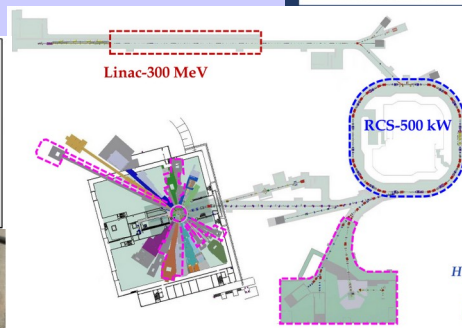
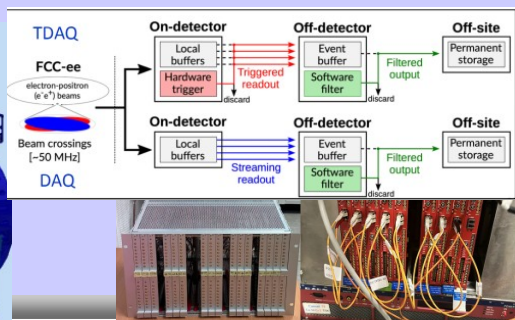


We had many interesting presentations devoted to:

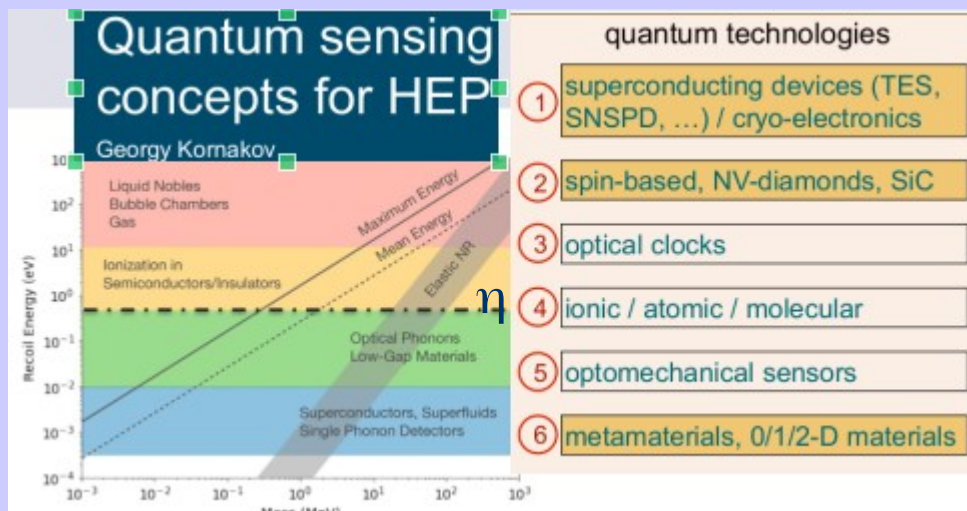
- Si trackers
- Gas trackers
- Drift chambers
- TOF systems
- Cherenkov counters
- Calorimetry
- Electronics
- DAQ
- Tools for data processing
- Magnetic coil
- Accelerator facilities



ARC

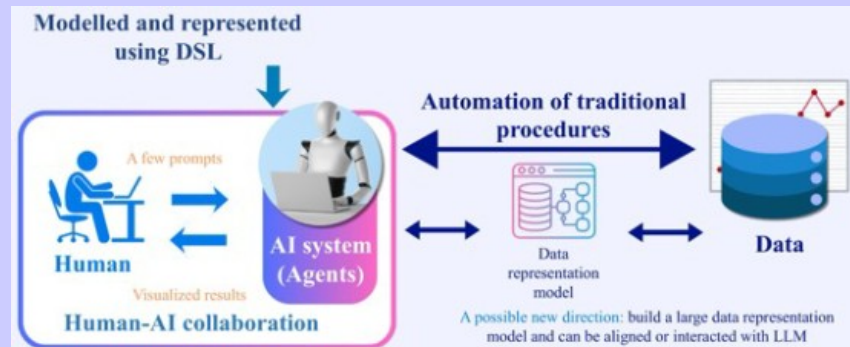


We had several talks devoted to new advance technologies:



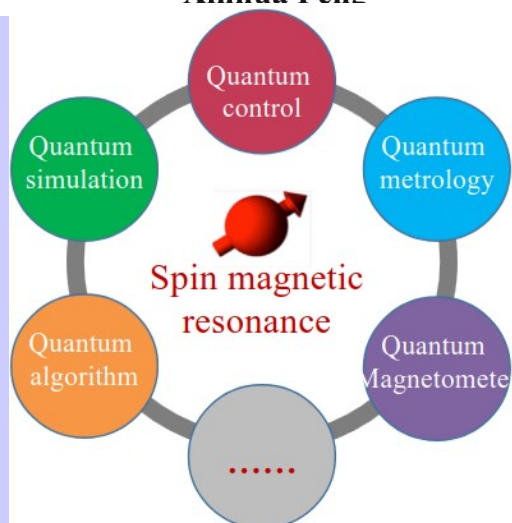
Agentic AI and the Future of Detector Operations in Particle Physics

Bruce Mellado



Spin-Based Magnetometry for Probing New Physics Beyond the Standard Model

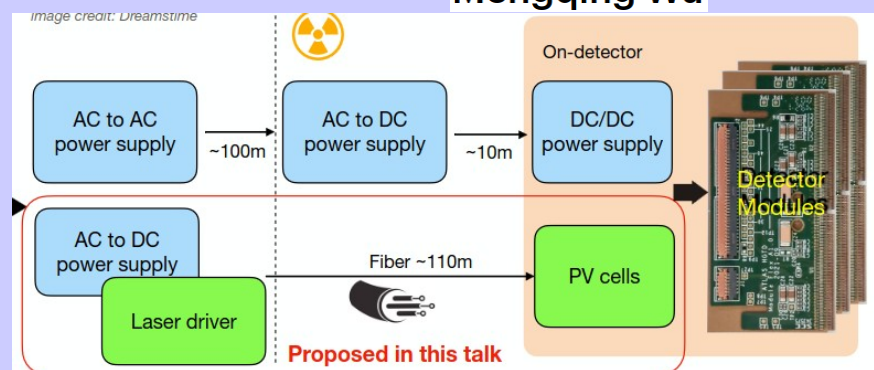
Xinhua Peng

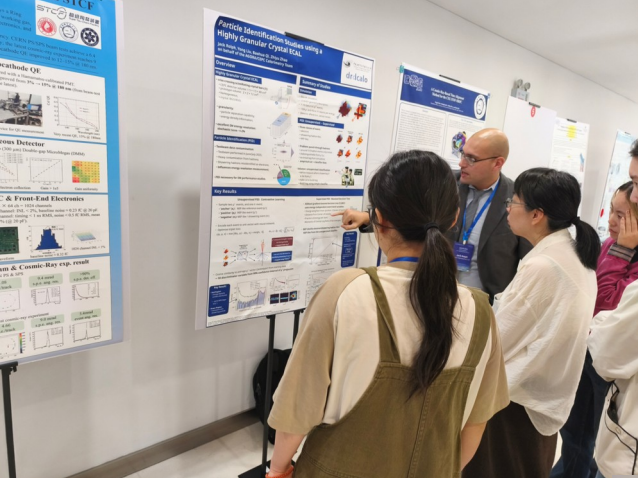


Develop an Optical Powering Demonstrator

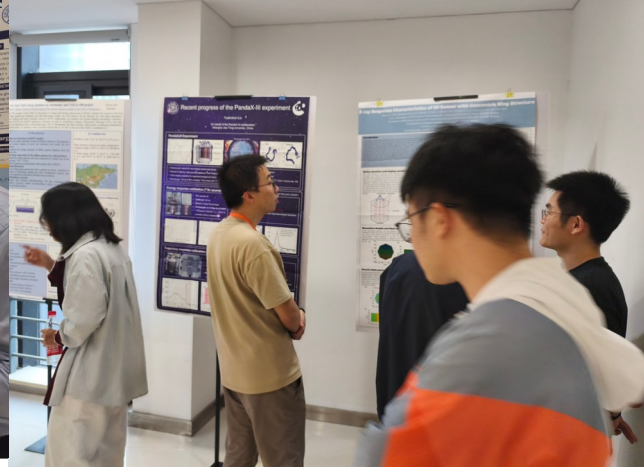
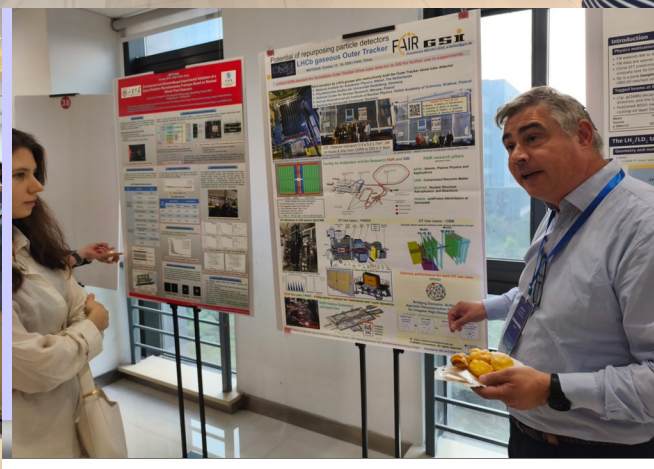
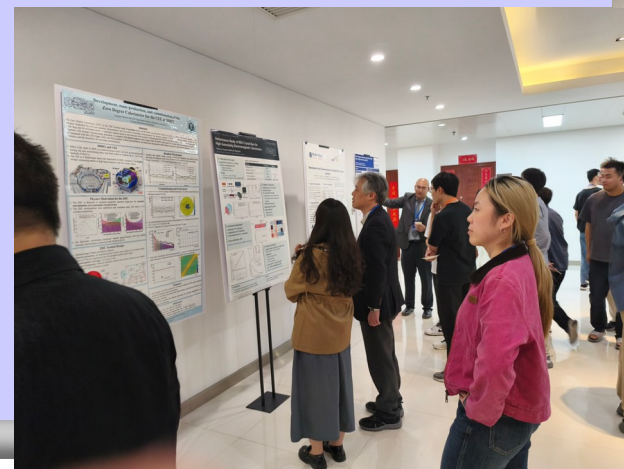
for High-Granularity Detectors at Future Colliders

Mengqing Wu

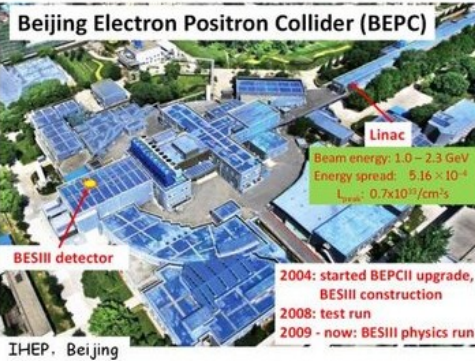




Poster session



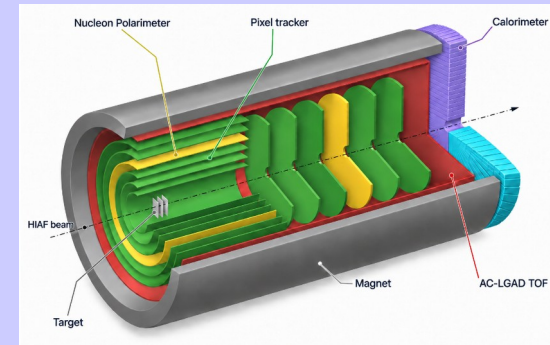
China



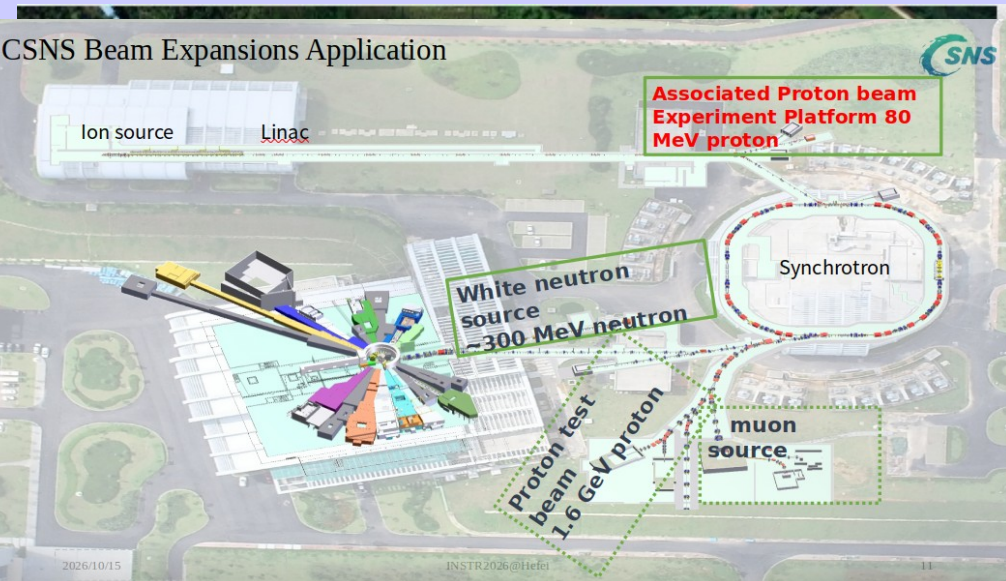
Left Figure: the BEPC schematic. Right Figure: the BESIII schematic



Hyperon-Nucleon Spectrometer (H-NS)



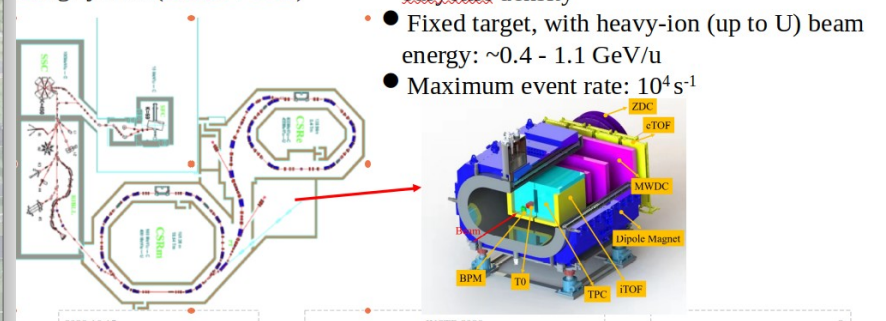
China Spallation Neutron Source



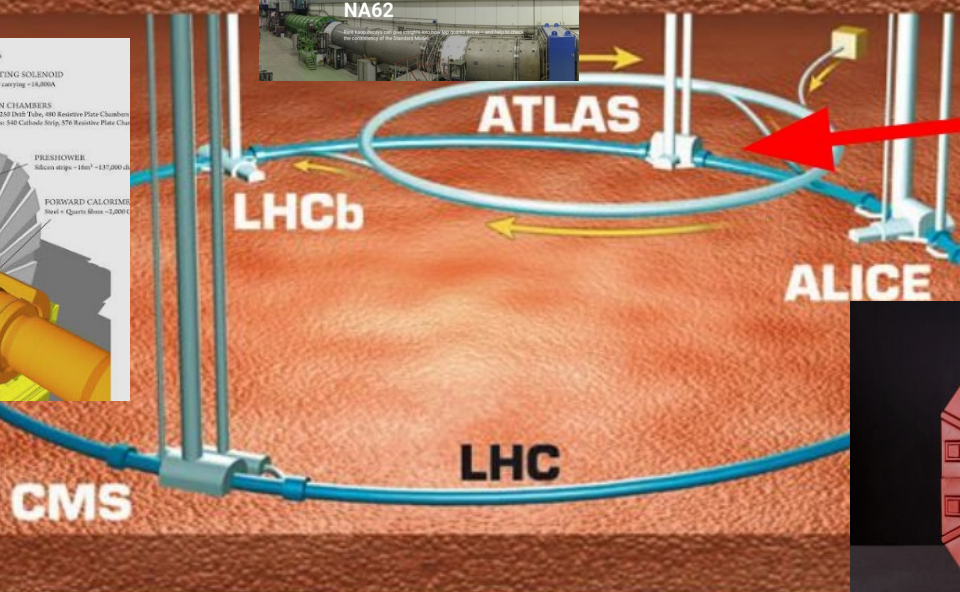
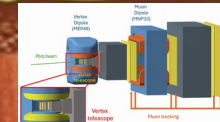
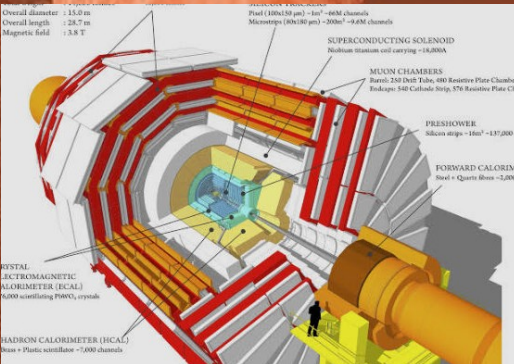
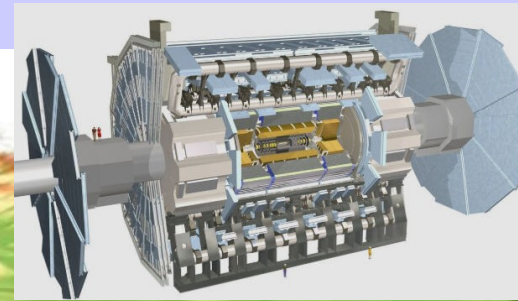
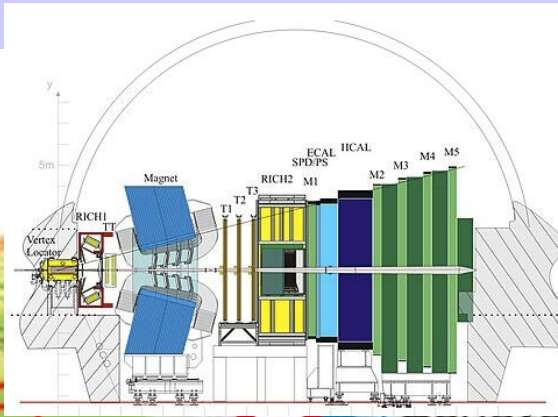
Heavy Ion Research Facility in Lanzhou Cooling-Storage-Ring system (HIRFL-CSR)

CSR External-target Experiment (CEE)

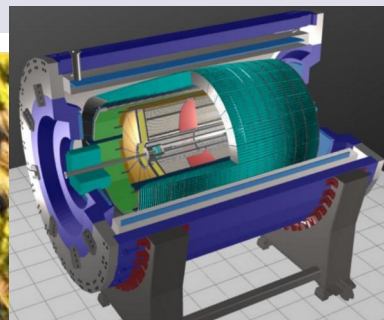
- Study the properties of nuclear matter at high baryonic density
- Fixed target, with heavy-ion (up to U) beam energy: $\sim 0.4 - 1.1 \text{ GeV/u}$
- Maximum event rate: 10^4 s^{-1}



CERN



JINR, Dubna



"Nuclotron"
0.6-4.5 GeV/u

NICA Buster
600 MeV/u

KRION-6T+ HILac
(3.2 MeV/u)

LIS + LU-20
(5 MэВ/u)

NICA
MPD

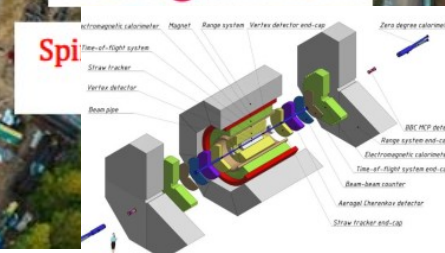
MultiPurpose Detector
Commissioning

BM@N

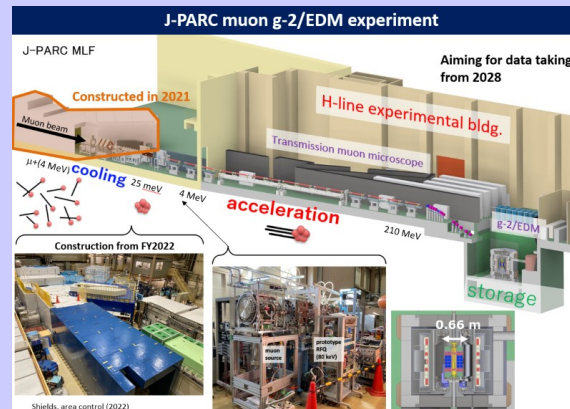
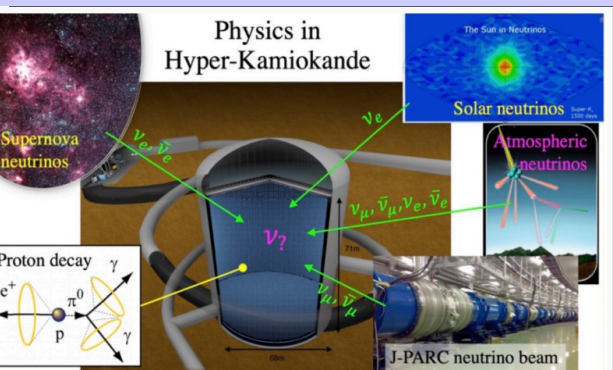
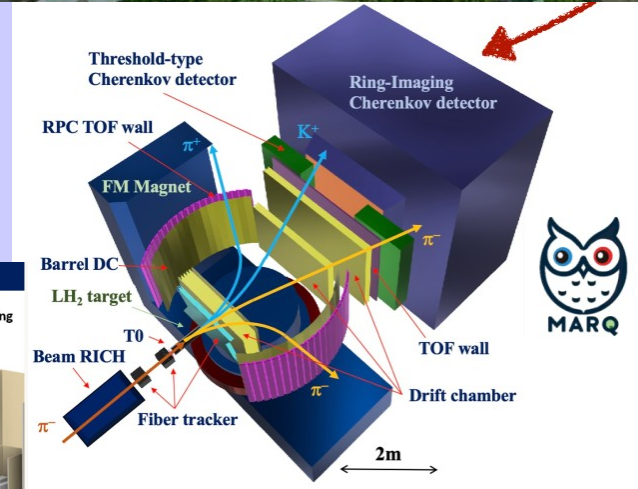
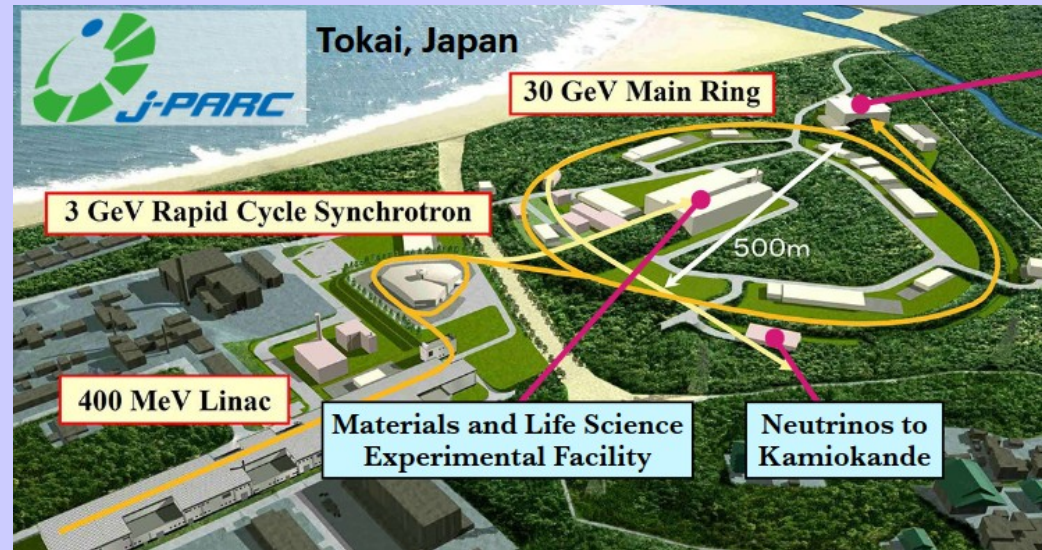
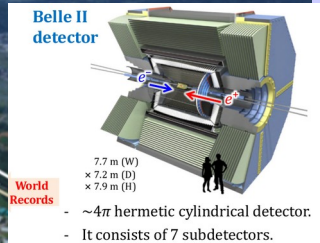
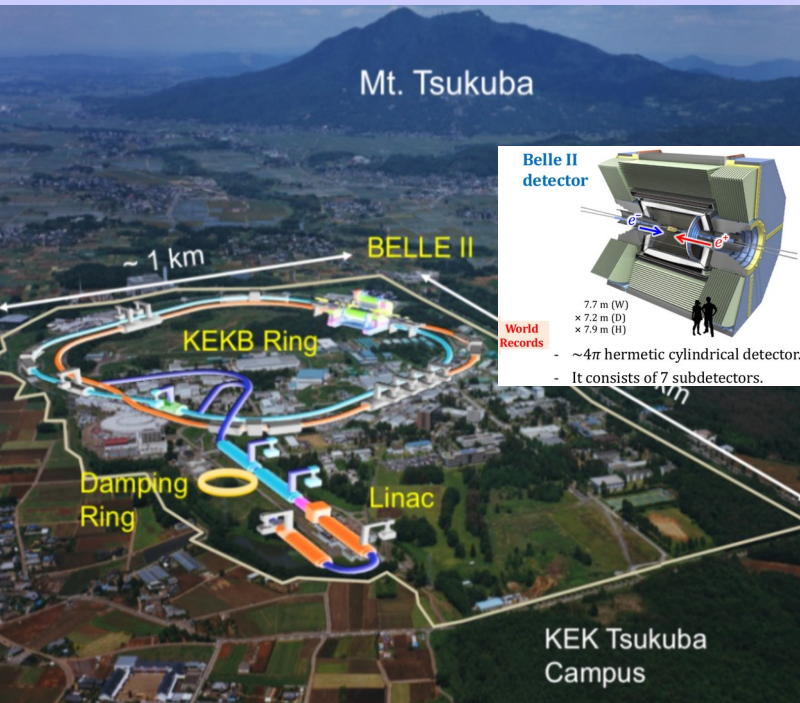
NICA

NICA ($C = 503$ m)
 $\sqrt{s_{NN}} = 4 - 11$ GeV

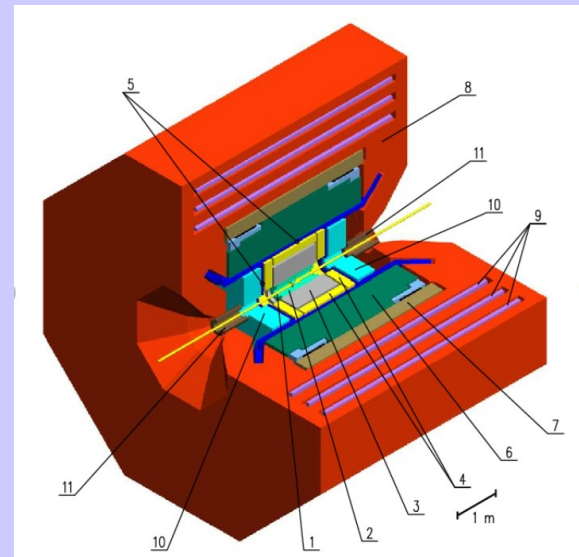
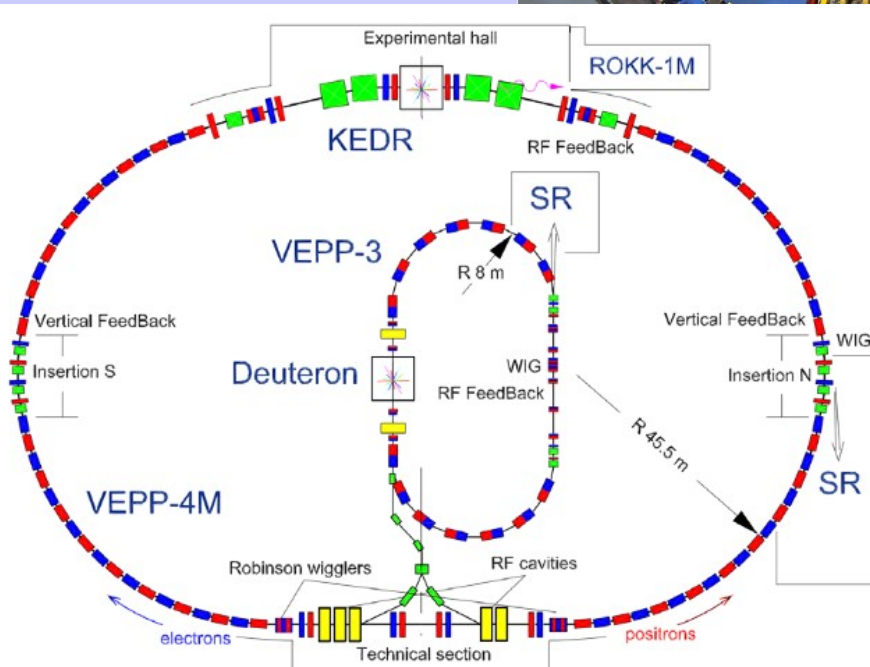
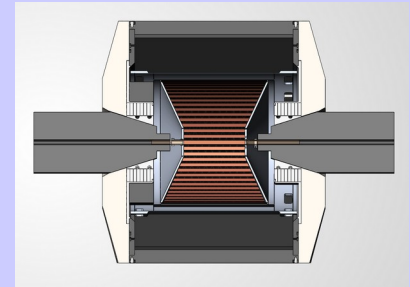
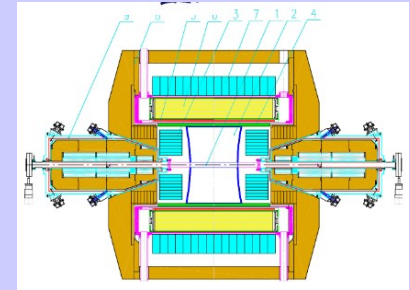
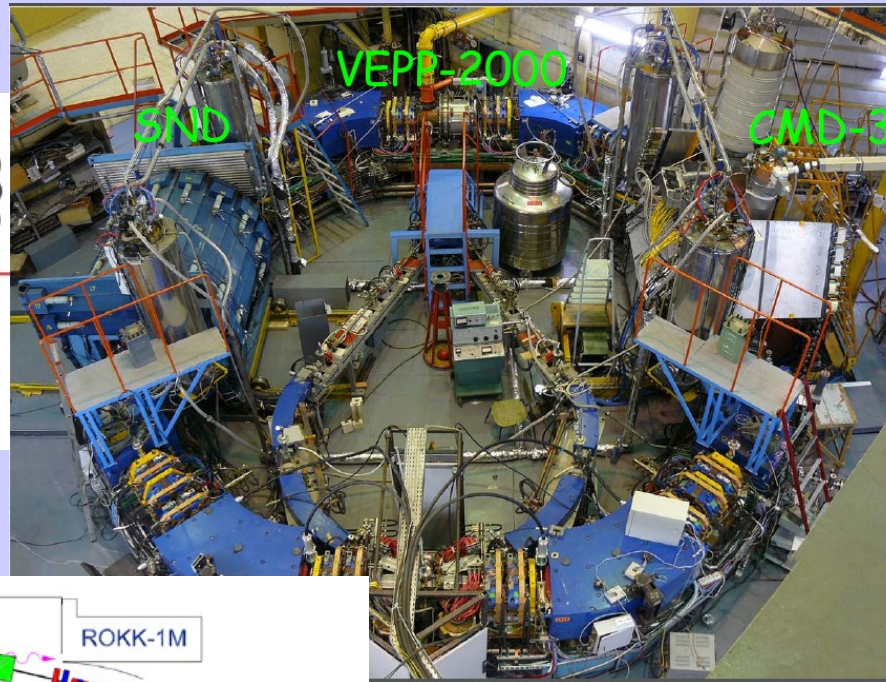
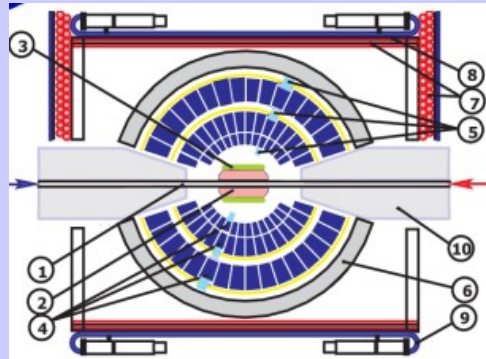
SPD
NICA



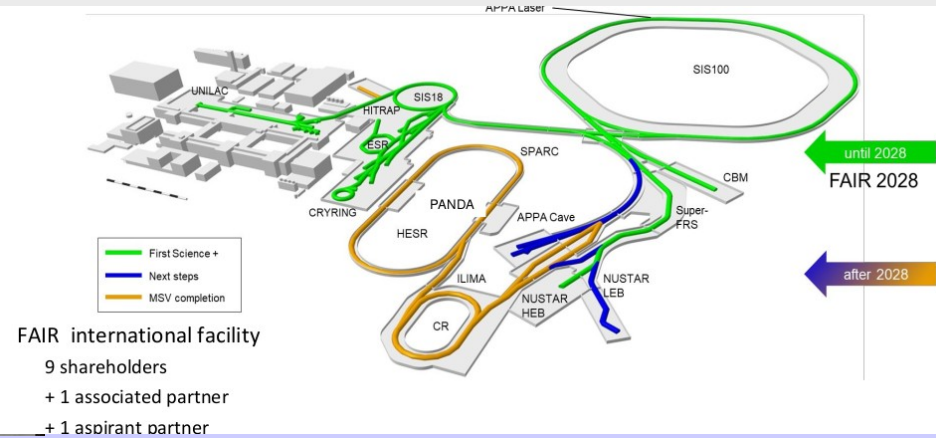
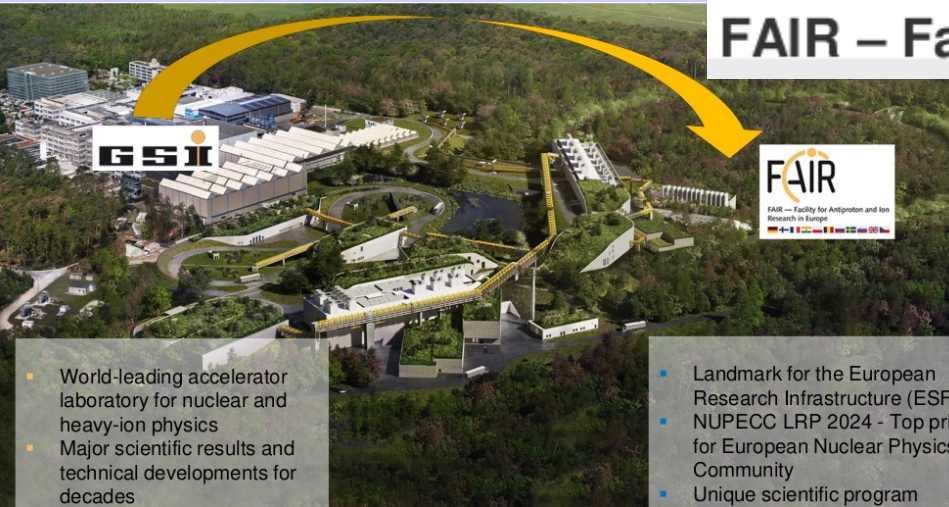
Japan



Budker INP, Novosibirsk, Russia



FAIR – Facility for Antiproton and Ion Research



APPA

- Precision tests of QED
- Cosmic ray simulator for irradiation studies
- Materials under high pressure

CBM **HADES**

- QCD matter at high baryon densities
- Phase transition and critical point
- Particles in dense medium

NUSTAR

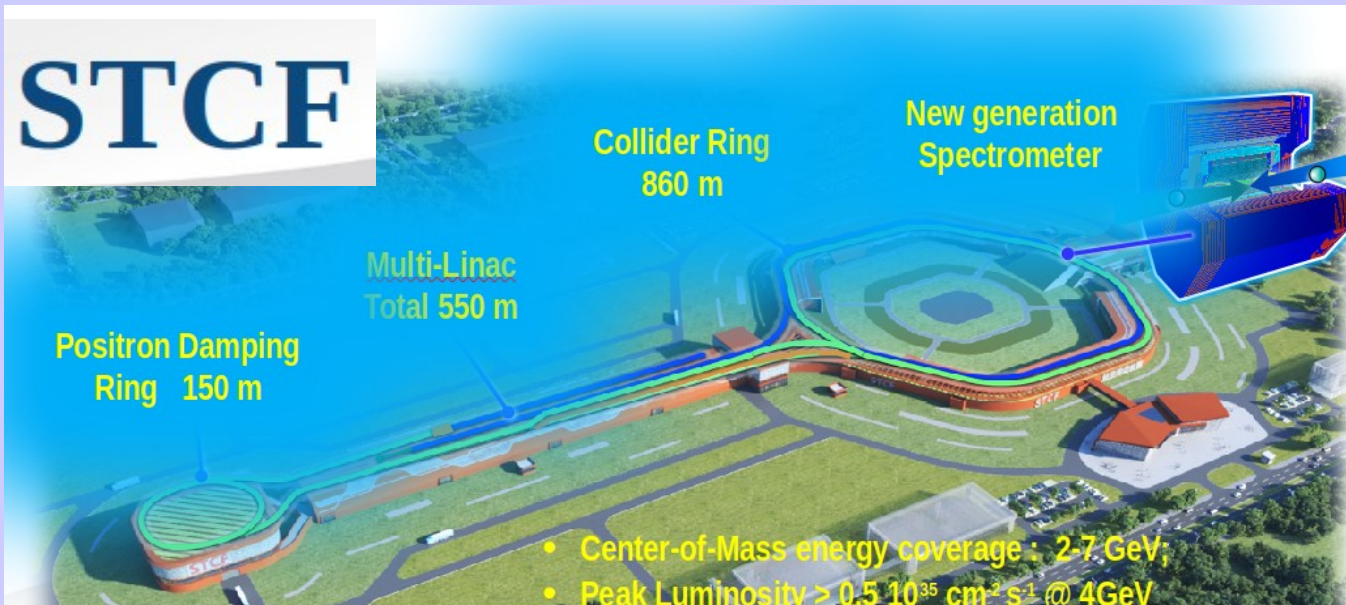
- Nucleosynthesis of heavy elements
- Structure of exotic nuclei (e.g. hypernuclei)
- Neutron matter equation of state

panda

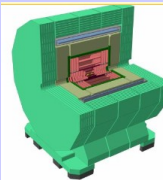
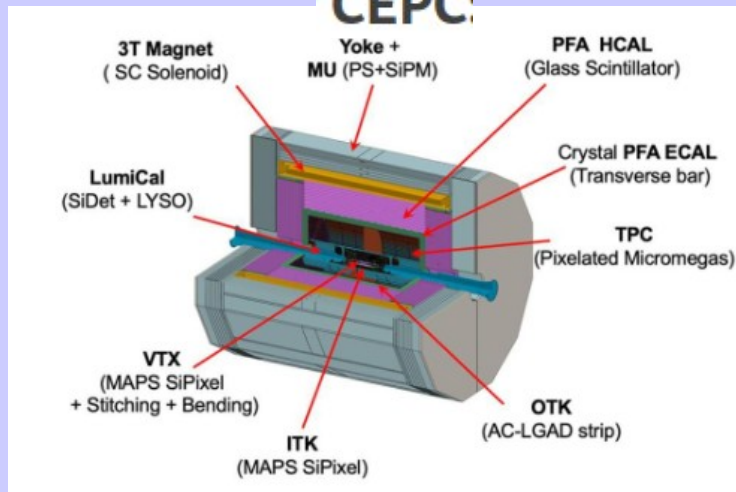
- Gluonic excitations: Hybrids, glueballs
- Precision spectroscopy of charmonium states
- Hyperons, Time-like form factors, nucleon structure

Future Facilities

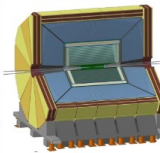
STCF



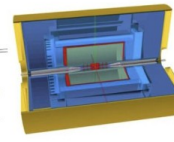
CEPC



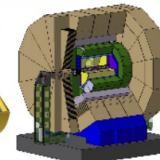
CLD



IDEA



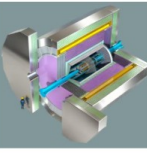
ALLEGRO



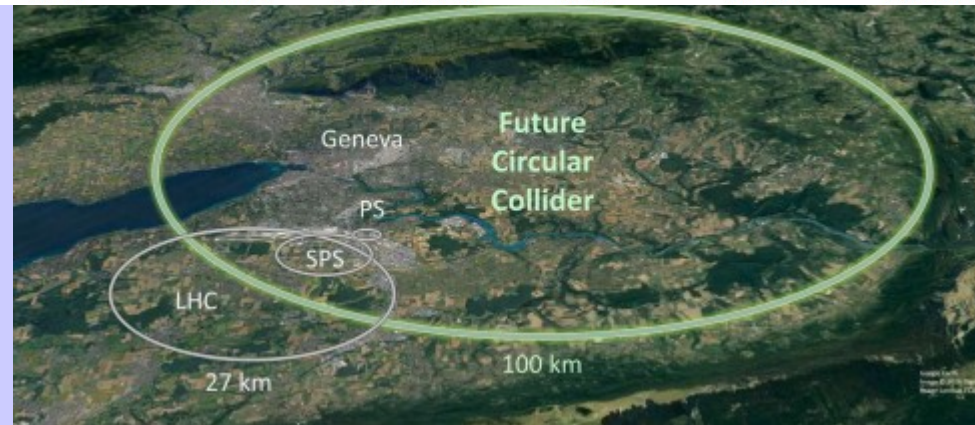
ILD



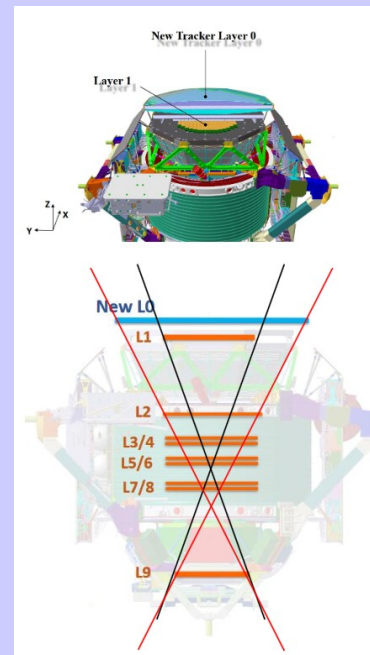
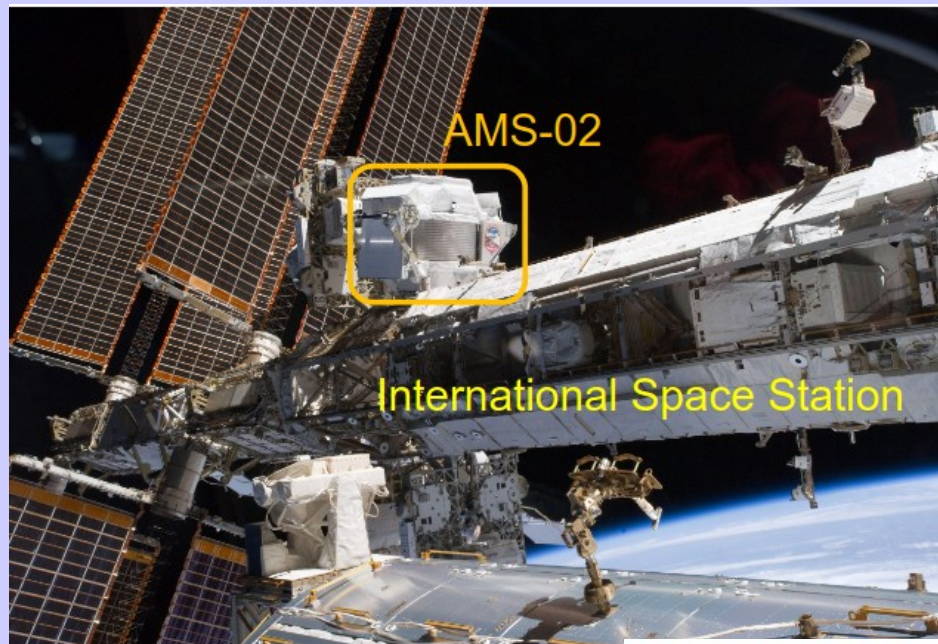
ALFA



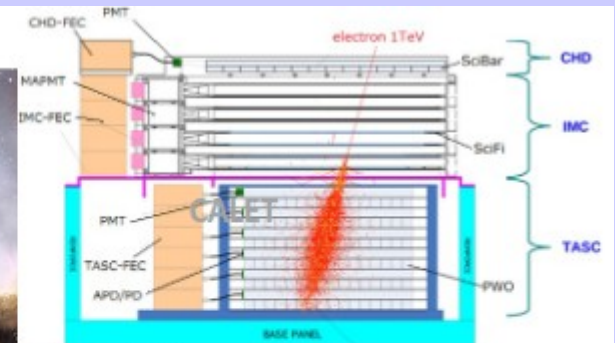
AGORA



Space station



Calorimeters



CALET

*Large acceptance calorimeter
Higher energies
Not sensitive to charge sign*

**This conference is over, but we expect to have next INSTR
in 2029.**

**International Advisory Committee is discussing the place.
Let's meet in 2029!**

It was an exciting week with a lot of presentations and discussions !



TIME TO RELAX AND HAVE A SAFE TRIP HOME !

***THANKS A LOT TO THE LOCAL ORGANIZING COMMITTEE FOR THE
EXCELLENT CONFERENCE !!!***