

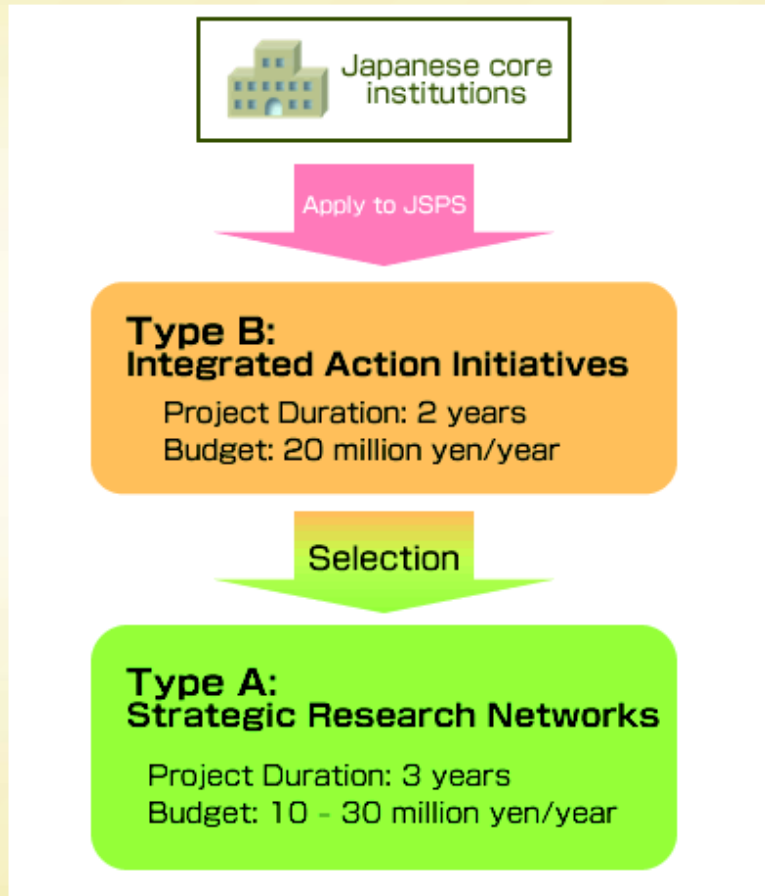
JSPS core to core program

**Establishing an International Collaboration Platform
for Strangeness Nuclear Physics by Electron beams**

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Department of Physics, Tohoku University

Joint workshop
JSPS core to core seminar &
EU SPHERE network meeting
September 4-6, 2010
Villa Lanna, Prague

JSPS Core-to-Core Program



OBJECTIVE

This program works to create world-class **research hubs** and **foster young researchers** through **networking** to advance multilateral collaboration in cutting-edge fields of science among the most advanced research institutions in the world.

It supports

1. Joint research activities
2. Scientific meetings
3. Exchange of researchers

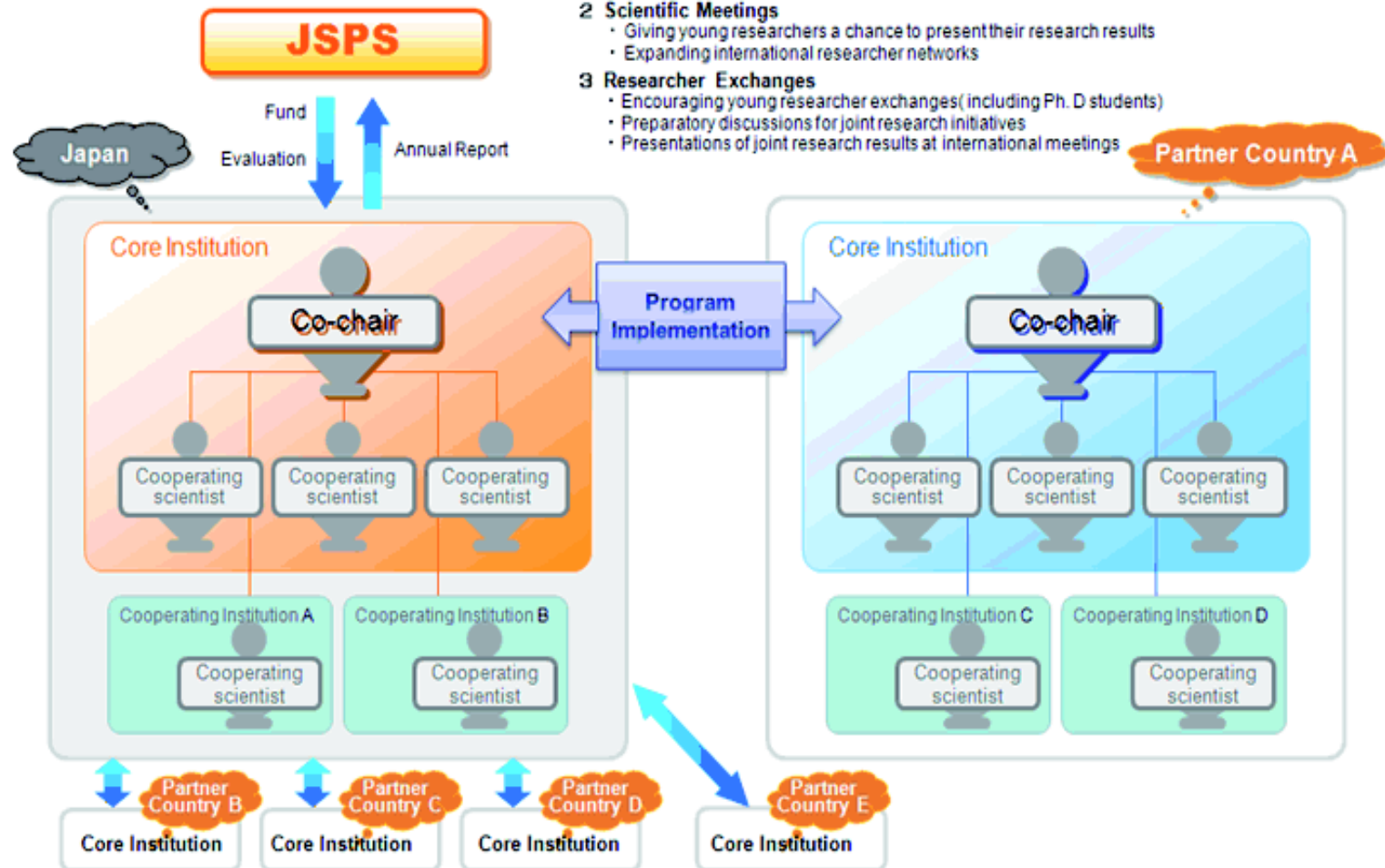
From Type B to Type A

- Type B runs from April 2009 to March 2011 as “Establishing an International Collaboration Platform for Strangeness Nuclear Physics by Electron beams”
- Core to core seminars have been held at JLab, Rome as well as smaller meetings among the collaborators
- Extension proposal from type B to type A has been submitted and is under review

JSPS Core to core program : Type B

Type B: Integrated Action Initiatives Multilateral Collaboration (No matching funds from overseas)

Conceptual Diagram



Program Implementation

1 Joint Research Activities

- Accelerating research and gaining knowledge
- Adopting cutting-edge research methods

2 Scientific Meetings

- Giving young researchers a chance to present their research results
- Expanding international researcher networks

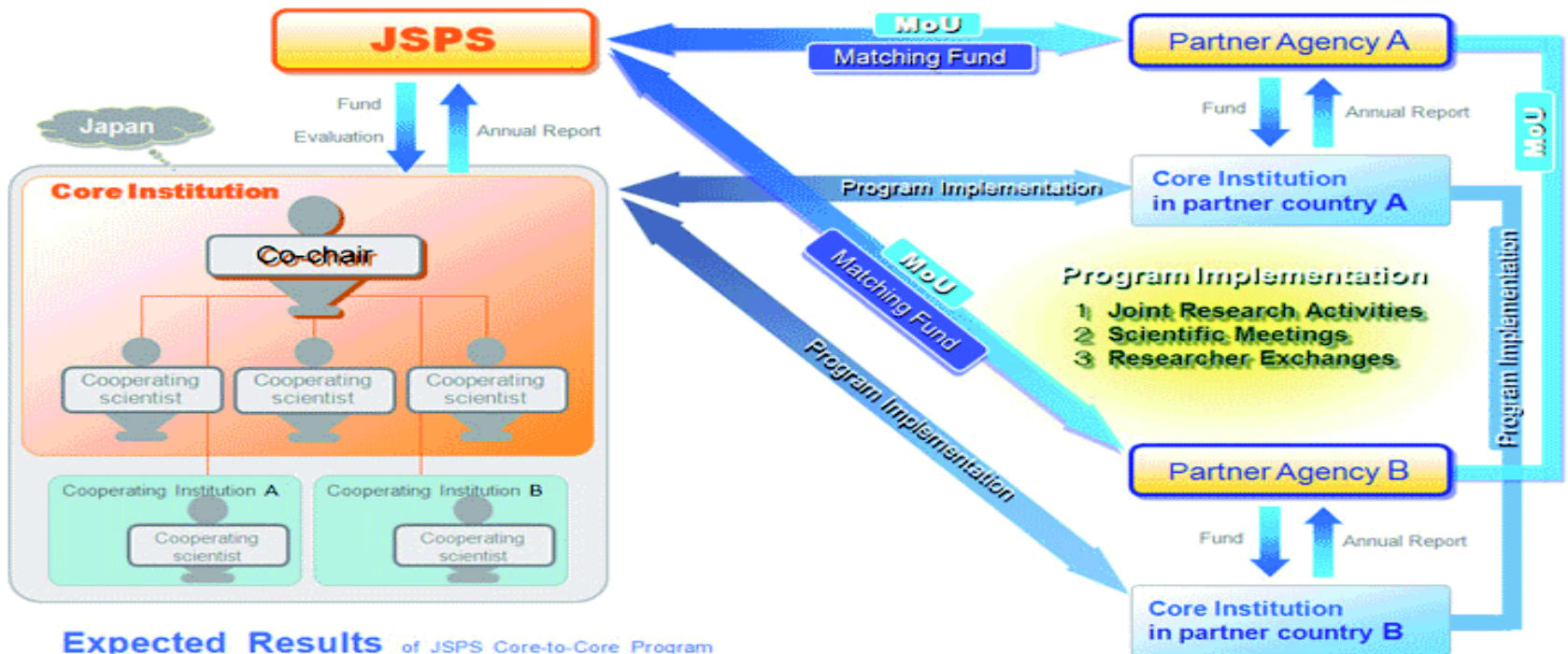
3 Researcher Exchanges

- Encouraging young researcher exchanges (including Ph. D students)
- Preparatory discussions for joint research initiatives
- Presentations of joint research results at international meetings

JSPS Core to Core Program : TYPE A

Type A: Strategic Research Networks Multilateral Collaboration (Matching funds from Partner Agencies)

Conceptual Diagram



Expected Results of JSPS Core-to-Core Program

1. By advancing joint research,
 - Have ripple effect on other research fields
 - Spawn new research by securing more sources of competitive funding
2. By promoting researcher exchange,
 - Expand research networks
 - Foster talented young researchers across multiple disciplines
3. By holding international seminars,
 - Share research results with other institutions and researchers
 - Build international networks for young Japanese researchers

1. Strategic interdisciplinary research hubs
2. Sustainable research partnerships among research institutions
3. Fostering young researchers

Establishing an International Collaboration Platform for Strangeness Nuclear Physics by Electron beams

Hypernuclear Spectroscopy
Strangeness production

Germany
Core Institution: Mainz Univ.
MAMI-C electron accelerator
Giessen

USA
Core Institution : Jefferson Lab.
CEBAF (Virginia)

Italy
Core Institution:
INFN Rome
Torino
JLab Hall A Exp.

USA
Core Institution:
JLab, Hampton U.
FIU
JLab Hall C Exp.

Czech Republic
Core Institution :
Czech Nuclear Physics Institute
(Prague)

Global network for Strangeness Nuclear Physics (GSNP)

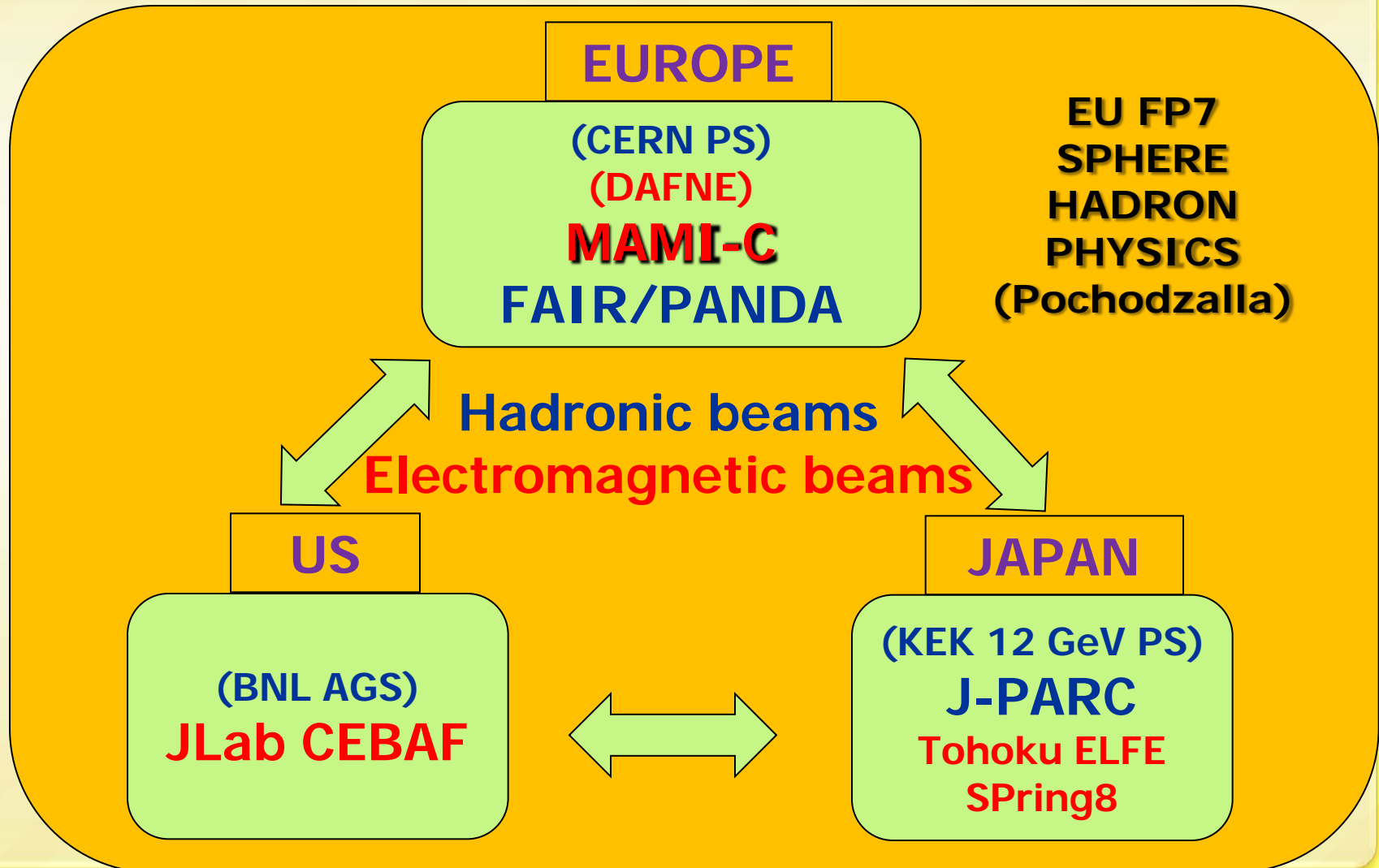
Core Institution Japan :
School of Science, Tohoku University
1.2 GeV electron accelerator
Electron Accelerator Facility, Sendai
KEK, JAEA, RIKEN
Yamagata U., Osaka EC U.

GSNP seminar
GSNP school
Research exchange

J-PARC
Strangeness Physics by hadron beams

S=-2 hypernuclear spectroscopy
Hypernuclear g-ray spectroscopy
Etc.

Accelerator Facilities for Strangeness Nuclear Physics



GSNP School

To be supported for 3 Years
under the JSPS core to core program Type A,
if the proposal is approved

- Strengthen the network and foster young physicists in the field of strangeness nuclear physics
- Cover the subject of strangeness nuclear physics and related topics, such as J-PARC nuclear physics programs
- Organized as a JSPS school series that run 7-10 days every year
- Take place at Tohoku University, Sendai & Tokai,.....
- To be organize jointly with J-PARC
- Expect participation from the network as lecturers and as participants
- Participants from Asian countries assumed