

Introduction to ASRC Theoretical Physics Institute

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Japan Atomic Energy Agency
Sector of Nuclear Science Research
Advanced Science Research Center



- Japan Atomic Energy Agency (JAEA)
Advanced Science Research Center (ASRC)
has established
- a multi-disciplinary theory group (“virtual”)
Theoretical Physics Institute
Hadron-nuclear physics (hadron)
Heavy-element nuclear science (nuclear)
Spin-energy transformation science
(condensed matter)



Advanced actinides science

Research Group(R.G.) for Interfacial reaction-field chemistry

Group Leader : B. Grambow (SUBATECH, France)

R.G.for Heavy element nuclear science [↗](#)

Group Leader : A. Andereyev (Univ.York, U.K.)

Utsuno, Koura

R.G.for Hadron nuclear physics:

Group Leader : M. Oka (Tokyo Inst. of Tech.)

Maruyama

Advanced nuclear materials science.

R.G.for Spin-energy transformation Science [↗](#)

Group Leader : E. Saitoh (Tohoku Univ.)

Maekawa, Mori, Matsuo, Adachi, . . .

R.G.for Nanoscale Structure and Function of Advanced Materials

Group Leader : S. Shamoto

R.G.for Materials Physics for Heavy Element Systems [↗](#)

Group Leader : S. Kambe

- **Goals**
 - **to enhance cross-disciplinary communications across the hadron-, nuclear- and condensed-matter-groups at ASRC**
 - **to establish collaborative associations both within JAEA and with related domestic and global research groups**
 - **to establish an on-site theory group that supports the J-PARC experimental projects**
 - **to host visiting researchers, organize symposia and workshops**

- **Cooperative Relations**
 - **Visiting staffs and cooperation**
A. Hosaka (RCNP, Osaka U), E. Hiyama (RIKEN)
T. Otsuka (Tokyo), S. Chiba (Tokyo Tech.), A. Iwamoto

S. Kumano, O. Morimatsu, A. Dote, K. Itakura
(KEK, Theory Center)
 - **Research Exchange Agreements with**
Inha Univ. (Korea) Hyun-Chul Kim
ECT* (Toronto, Italy) Wolfram Weise

- **Event Plans**
 - **Theory lecture series**
 - 6/2 A. Ohnishi (YITP, Kyoto)
 - 11/2 T. Kajino (NAOJ)
 - **Reimei (黎明) Workshop**
 - 11/30-12/2 (tentative)
 - Reimei workshop
 - Hadron Physics in Extreme Conditions at J-PARC
- **Budget**
 - **Reimei project 3M Yen (incl. exp. project)**

- 協力のお願い We need your support
- J-PARC関連研究におけるTPIの利用
Use TPI as a bridge to J-PARC related research
- 実験との共同プロジェクト
Especially for projects with experimentalists
- 企画の提案
Propose workshops, conferences
or any other activities at TPI