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Special Topic Articles

R&D on Accelerator Driven Nuclear Transmutation System (ADS) at J-PARC

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|--|---|-----|
| 1. Accelerator Driven Nuclear Transmutation System (ADS) | MAEKAWA Fujio | 201 |
| 2. Transmutation Experimental Facility at J-PARC | MAEKAWA Fujio and TAKEI Hayanori | 206 |
| 3. Lead-Bismuth Target Technology | SASA Toshinobu | 211 |
| 4. Proton Beam Technology and Neutronics | MEIGO Shin-ichiro, NAKANO Keita and IWAMOTO Hiroki | 216 |
| 5. Research and Developments of a Superconducting Linac for ADS
..... | KONDO Yasuhiro, TAKEI Hayanori, YEE-RENDON Bruce and TAMURA Jun | 222 |

Saloon

Most Downloaded J.Plasma Fusion Res. Articles in 2021

- ARAMAKI Mitsutoshi, IDEI Hiroshi, SUZUKI Haruka, MUKAI Keisuke,
KOBAYASHI Masahiro and IDO Tsuyoshi 228

PFR Abstracts 233

Information 235

Announcement 243

Cover

Lorentz orbit analysis of deuterium-deuterium fusion born 3 MeV protons in a quasi-axisymmetric stellarator CFQS, under construction as a joint project of National Institute for Fusion Science, Japan and Southwest Jiaotong University, China. Most of 3 MeV protons reach the vacuum vessel before they make their Larmor motion because the proton Larmor radius is equivalent to plasma minor radius. The feasibility study on the inverse transformation of the deuterium-deuterium fusion reaction profile using 3 MeV proton measurement was performed. (Kunihiro OGAWA *et al.*, Plasma and Fusion Research, Vol. 17, 2402012 (2022) <http://www.jspf.or.jp/>)



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