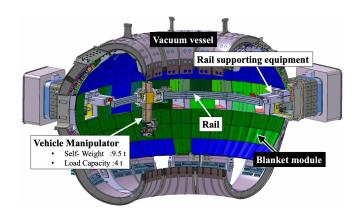
JOURNAL OF PLASMA AND FUSION RESEARCH

The Journal of the Japan Society of Plasma Science and Nuclear Fusion Research Vol. 100, No. 7, July 2024

Special Topic Articles

Recent Progress of Old yet New Neoclassical Transport Theory	
1. Introduction ————————————————————————————————————	301
2. Overview of Neoclassical Transport Theory	304
3. Neoclassical Transport Calculations in Practice: Approximate Models and New Developments	
3.1 Numerical Schemes for Drift-Kinetic Equation and Several Approximations	
in them SATAKE Shinsuke	314
3.2 The Coulomb Collision Operator for Problems Including Energetic Particles	
NISHIMURA Shin and NUGA Hideo	321
3.3 Application of Global Neoclassical Calculation to Multi-Species Plasma ······ FUJITA Keiji	328
4. Interaction between Neoclassical and Turbulent Transport ······ IMADERA Kenji	334
5. Summary — MAEYAMA Shinya	339
Lecture Note	
Social Infrastructure Protection and Damage Prediction Based on Space Weather Research	
8. Space Radiation Effects on Space Vehicles and Human in Space ···············NAGAMATSU Aiko	341
9. Prediction of Solar Explosive Phenomena	347
PFR Abstracts	354
Information	355
Announcement ·····	358



Cover

The ITER blanket remote handling system (shown in the figure) will exchange the blanket modules in the vacuum vessel after plasma shutdown. The inside of the vacuum vessel will become a gamma-ray environment; thus, we have been developing radiation-resistant components. In this study, we irradiated a dust-proof protective sleeve for the arm of the vehicle manipulator by gamma-ray and confirmed its radiation resistance (1 MGy).

(Makiko SAITO et al., Plasma and Fusion Research, Vol. 19, 1405020 (2024) http://www.jspf.or.jp/)