

Nuclear Science and Transmutation Research Division  
High-Intensity Accelerator R&D Group  
High-Power Target R&D Team

**1. Abstract**

The subjects of this team cover R&D studies with respect to target technology for the transmutation of the LLFPs.

**2. Major Research Subjects**

- (1) Liquid lithium target for production of neutron or muon
- (2) Beam window without solid structure

**3. Summary of Research Activity**

- (1) Liquid lithium target for production of neutron or muon (H. Okuno)
- (2) Beam window with solid structure (H. Okuno)

**Members****Team Leader**

Hiroki OKUNO

**Visiting Scientist**

Katsuyoshi TSUMORI (Nat'l Inst. Fusion Science)

**List of Publication****Publication****[Original Paper]**

Y. Miyake *et al.*, "Test of  $^{107}\text{Pd}$  transmutation with macroscopic quantities," J. Nucl. Sci. Technol. **59**, 1536 (2022).