Contribution ID: **28** Type: **Poster**

Status of large area disk target development for ISOL facility of RAON

Tuesday, 5 June 2018 18:40 (10 minutes)

The compound of uranium carbide (UCx-C) target will be used for ISOL facility of RAON. However, Lanthanum de-carbide (LaC2) was used to carry out advanced research for optimal condition of fabrication instead of UCx-C because the uranium is radio-active material and lanthanum carbide has a similar properties to uranium carbide. A compound disk of lanthanum carbide (LaC2-C) of 50 mm in diameter, which lanthanum de-carbide with Multi-Wall Carbon Nano-Tube (MWCNT) was fabricated and tested. The long-term high temperature test was carried out at 1600℃, 1800℃ and 2000℃. Test duration was 20 hrs and 48 hrs respectively. The disks were analyzed in terms of weight, diameter, micro-structure, composition and density. Research and development for UCx-C based on the result of LaC2-C test is carrying out, the status will be introduced with the TIS (Target and Ion Source) system in this presentation.

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Session Classification: Poster Session and Reception