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An irradiation target in a vacuum chamber of a tandem accelerator in Nagaoka University of Technology. Helium ion beams are irradiated to a tungsten sample with kinetic energy of 4 MeV to demonstrate the damage of the reactor wall in a nuclear fusion system. The irradiation target consists of the tungsten sample and the temperature measurement system (a thermocouple and thermo labels) mounted on an ion collector. (Yuki UCHIDA *et al.*, Plasma and Fusion Research, Vol. 13, 1205084 (2018) http://www.jspf.or.jp/)

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