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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/)