

New NEAR irradiation station at n_TOF: design, implementation and first results

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A new irradiation station has been built and commissioned at CERN's n_ToF facility, enabling new types of neutron-dominated irradiations and activation studies. The irradiation setup is radiation tolerant and is handled remotely to reduce dose to operators. Pilot irradiations of commercial lubricants and O-ring materials started in July 2021, and recently concluded successfully, in compliance with RP requirements.

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