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Status Report: Research of Materials in Target Environment at European Spallation Source

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At the European Spallation Source (ESS), a number of research projects on irradiated materials are under-going in collaboration with other leading accelerator labs. The research program includes post irradiation examination (PIE) of tungsten as spallation material, in-beam characterization of chromium doped alumina as luminescent coating material, chemical kinetics of selected catalyzers for ortho-to-para hydrogen conversion, and PIE of radiation resistant elastomer and lubricants. Planned activities in 2019 are the PIE of chosen proton beam window materials in collaboration with PSI, and the works on characterization of beryllium as reflector material in collaboration with UKAEA and SNS. In this presentation, current status and future prospect of the materials research activities at ESS is reported.

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