

2nd IAEA Technical Meeting on the Collisional-Radiative Properties of Tungsten and Hydrogen in Edge Plasma of Fusion Devices

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Modelling of Reflection and Sputtering properties from structured and crystalline surfaces: Old and new insights

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The reflection and sputtering properties of surfaces under energetic particle impact have been studied theoretically and experimentally since several decades and for many systems (especially planar, mono-elemental and amorphous target-systems) a comprehensive level of knowledge does exist. The situation is considerably less satisfying once the target system exhibits more complex features. Here we outline the present state of the modelling capabilities with a focus on SDTrimSP, their comparison and validation with experimental data and on some unexpected features of Fe-W-systems under irradiation.

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