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Soft-landing of Radioactive Probes on Clean Metal Surfaces and at Interfaces

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Soft-landing techniques of radioactive probe atoms have been developed in the ASPIC facility which is installed at ISOLDE. The probe atoms were deposited at interfaces and on surfaces of metals and ferromagnets where they can be manipulated to occupy specific sites. Utilizing sensitive nuclear techniques for analysis, magnetic hyperfine fields and electric field gradients have been determined. In the light of density-functional methods, these parameters can be linked to parameters which are commonly used in complementary techniques in solid state physics.

A review shall be given over the achievements of the measurements and targets for further investigations shall be identified.

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