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Exploring the shell structure of exotic Sn isotopes with an Active Target at SPES: the MagicTin project

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With the aim of studying the evolution of nuclear shells in the region of neutron-rich Sn isotopes, the MagicTin project (EU-MSCA 661777) will exploit the capabilities of the ACTAR TPC detector for measuring direct reactions in the Z≥50, A≥132 mass region.
In preparation for these experimental campaigns, to be done at the forthcoming radioactive ion beam facilities like SPES, HIE-ISOLDE or SPIRAL2, several preparatory steps are needed. Indeed, the detection of heavy-ion (Z≥50) induced reactions using an active target represents a challenge itself.
After providing an overview about the use of Active Targets in experiments with Radioactive Ion beams, I will focus on the status of the MagicTin project and its future perspectives.

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