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Status of Polarized Solid Targets in European High Energy Scattering Experiments

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In Europe are running three polarized solid state targets in single and double polarized scattering experiments. In Bonn at ELSA and in Mainz at MAMI are two targets located. Both are so called frozen spin targets, which are dynamically polarized and during data taking the material is cooled down to 50 mK and lower, where the spins are frozen what means the relaxation time is increased to few hundred up to several thousand hours, depending on temperature and applied magnetic field. The biggest polarized target in the world is the COMPASS target, running in the north area at CERN. This target can run in frozen spin and in continuous wave mode depending on the physical question of the scattering experiment.

This talk presents the status of the three experiments with a focus on the targets.

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