Recent research activities and results of the Bochum/Bonn Polarized Target Group

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The Bochum/Bonn polarized target group is involved in the fixed target experiments COMPASS at CERN and baryon spectroscopy at ELSA and MAMI. The experiments at Bonn and Mainz are focused on the study of the nucleon resonance region with polarized beam and target with 4 detection system. The focus of the COMPASS experiment is the study of hadron structure and hadron spectroscopy with high intensity muon and hadron beams.

In this talk technical achievements and the operation experience of the Bonn Frozen Spin Target will be highlighted. New developments to produce an internal superconducting polarizing coil for continuous DNP will be shown. In addition the setup and measurements with the new Bochum NMR system and recent material investigation will be presented.