Title: Low temperature proton polarized target for nucleon structure studies at COMPASS

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Abstract: Overview of basics of deep inelastic scattering and process of dynamic nuclear polarization with emphasis to importance of precise polarization determination for nucleon spin structure studies are given. This is followed by description of COMPASS experiment with emphasis given to low temperature polarized target. General procedure of NMR data analysis is given and finally polarization for run 2010 and relaxations rates are determined.

Keywords: nucleon structure, polarized proton target, low temperatures, NMR technique