

## Optimization in Tensor Polarized Targets

*Wednesday 16 September 2015 12:00 (30 minutes)*

A discussion of achieving tensor polarization optimization of a spin 1 solid target to be used in scattering experiments is presented. Manipulation of the deuteron NMR line with selective RF semi-saturation at a temperature of 1 K and holding field of 5 T are discussed. Some measurement techniques with error estimation are outlined. Techniques in increasing the deuteron tensor polarization using RF enhancement is illustrated along with the procedure needed to maintain optimal polarization while running with DNP microwaves and electron beam on the target.

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