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A Lambshift Polarimeter for Hydrogen Molecules

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Usually, Lambshift polarimeters are used to measure the nuclear spin polarisation of hydrogen atomic beams or slow proton beams of about 1keV. As recent experiments aim to produce polarised hydrogen molecules (H_2 HD , D_2), either by recombining atoms (IKP @FZ-Jülich) or with a new molecular-beam-source (BINP), a nuclear spin polarimeter for molecules is needed. As it will be shown in this talk it is also possible to measure the nuclear spin polarisation of the hydrogen molecules with a Lambshift polarimeter.

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