



ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE
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POZVÁNKA
na 229. seminář ÚTEF ČVUT
pod záštitou Československé sekce NPSS IEEE

Deuterons - A Challenge for Polarized Solid Targets

Prof. Werner Meyer
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Abstract

Dynamic Nuclear Polarized (DNP) solid targets are in operation for their use in nuclear and particle physics experiments since the early 1960's at various laboratories. Early developments in cryogenics and magnet technologies have led to proton polarization values close to 100% in a variety of target materials already in the 1970's. Radiation doping as well as new chemical dopants for the DNP process improved the polarization degree for deuterons with their rather low gyromagnetic ratio drastically. The state of the art for highly polarized solid deuteron targets will be given. The talk will end with very short remarks to recent spin-off activities from polarized solid targets in the field of medicine.

Seminář se bude konat v úterý 1. března 2010 ve 14 hodin
v zasedací místnosti ÚTEF ČVUT, Praha 2 - Albertov, Horská 3a/22

Ing. František Krejčí
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