



Contribution ID: 92

Type: **Talk**

Tailoring polarized neutron beams by traveling-wave magnetic neutron spin resonance

Tuesday 7 December 2021 09:05 (25 minutes)

We report on experimental tests of the neutron magnetic spin resonator MONOPOL with very cold neutrons. When placed between two supermirror neutron polarizers and operated in a pulsed traveling-wave mode, it allows to decouple time- and wavelength-resolution and can therefore be used simultaneously as electronically tunable monochromator and fast beam chopper. As a first 'real' scientific application we intend its implementation in the PERC facility at FRM II related to high-precision experiments in neutron beta decay.

Author: JERICHA, Erwin

Presenter: JERICHA, Erwin

Session Classification: Nuclear, Particle, and Astrophysics

Track Classification: Nuclear, Particle, and Astrophysics