

# TOF Polarized Neutron Spectrometer on IBR-2: Present Status of REMUR

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# Outline

1. INTRO: functional units of REMUR
2. Recent upgrade
  - Reasons for upgrade
  - Technical accomplishment
3. Predictions & preliminary results

# Functional units of REMUR

- Collimation system
- Polarizer system
- Slits
- Spin flippers
- Multislit analyzer
- Detector system, PSD

# Reasons for the recent upgrade

- Large background related to wide incident beam  $\Rightarrow$  decreased useful intensity
- Decreased polarization at higher wavelengths
- Too wide beam after polarizer (in reflectometry mode)

# Technical accomplishment

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# Predictions and preliminary results

- Increase of intensity:  $2\times 2\times$
- Decrease of unpolarized neutron admixture:  $3\times$