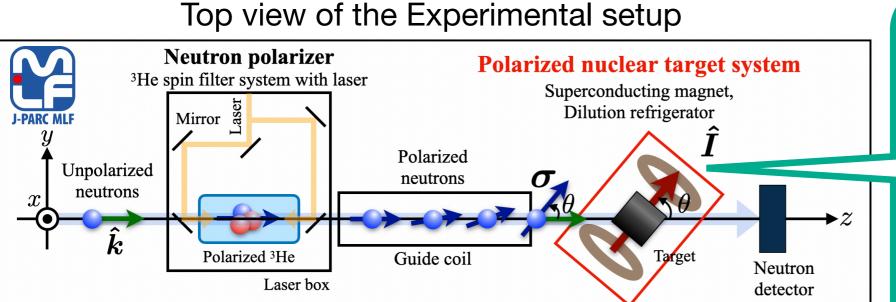
Development of a Cryogenic insert



for polarized nuclear target for NOPTREX Phase-1 Experiment

- ◆ Purpose: Search for the T-violation beyond the Standard Model
- ◆ NOPTREX Phase-1 Experiment: Our first step of the T-violation search



Phase-1 exp. will be performed in Jan. 2026!

- ◆ Development of a new Cryogenic Insert:
 - Cooling < 0.1 K with a Dilution Refrigerator
 - Polarization by DNP: La polarization ~35%
 - First Cooling test of DR: Achieved ~50 mK
 - Next: cooling tests under heat load conditions (microwave, beam)

