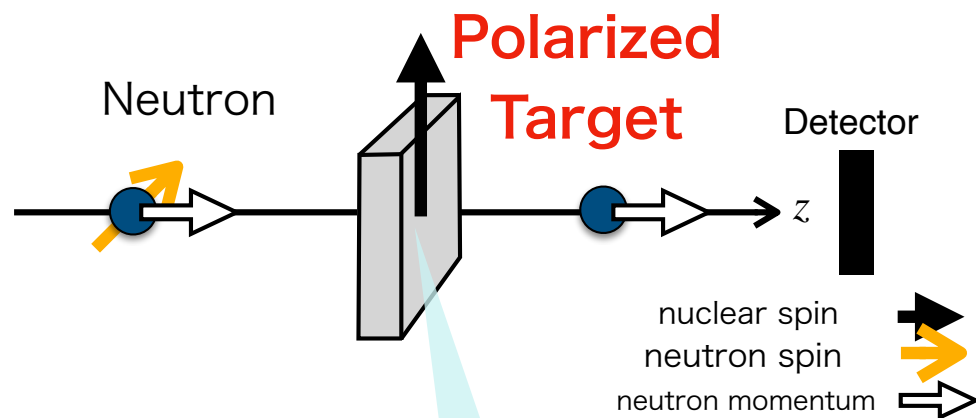


Development of Polarized ^{139}La Target for the NOPTREX Experiment

M. Okuizumi

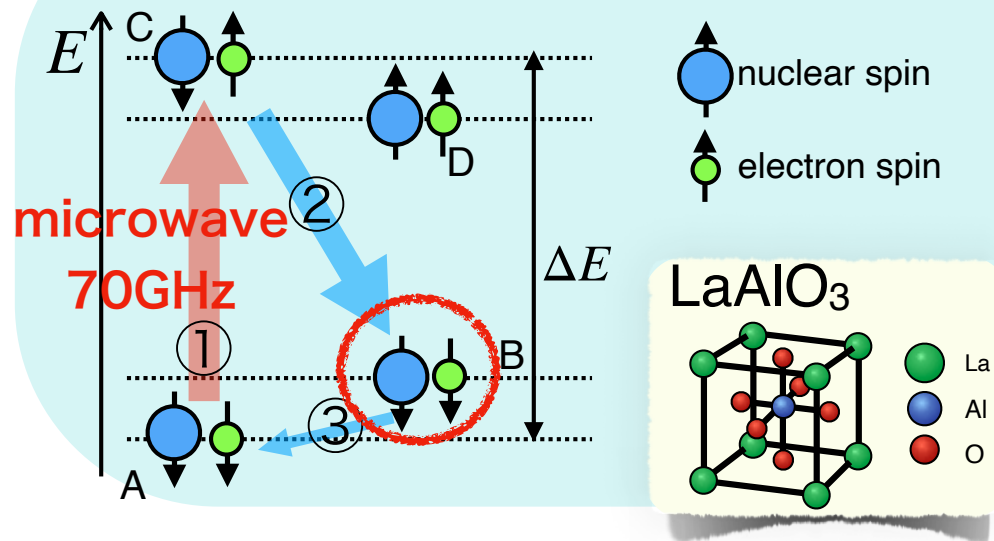


T-violation Search with Polarized Neutron and Nuclear



- Nuclear magnetic moment is $\sim 1/1000$ of electron
- In the thermal equilibrium, 6T, 0.1K $P_e \sim 100\%$, but P_{La} is a few percent
- Using Dynamic Nuclear Polarization $P_{\text{La}} \sim 40\%$ was achieved

Dynamic Nuclear Polarization



NMR spectrum of ^{139}La $I=7/2$

