Wigner 121 Scientific Symposium

Wigner Research Centre for Physics Institute for Solid State Physics and Optics **Quantum Information National Laboratory** Atom-photon Interface Project

Toward atom-based quantum technology

- Objective: strong coupling atom-photon interface.
- Realization: loading cold atoms from a movable magnetic quadrupole trap into an optical dipole trap sustained by a single mode of a high-finesse optical resonator.

Repump laser









