



- **Name of Organization:**

Northwestern University

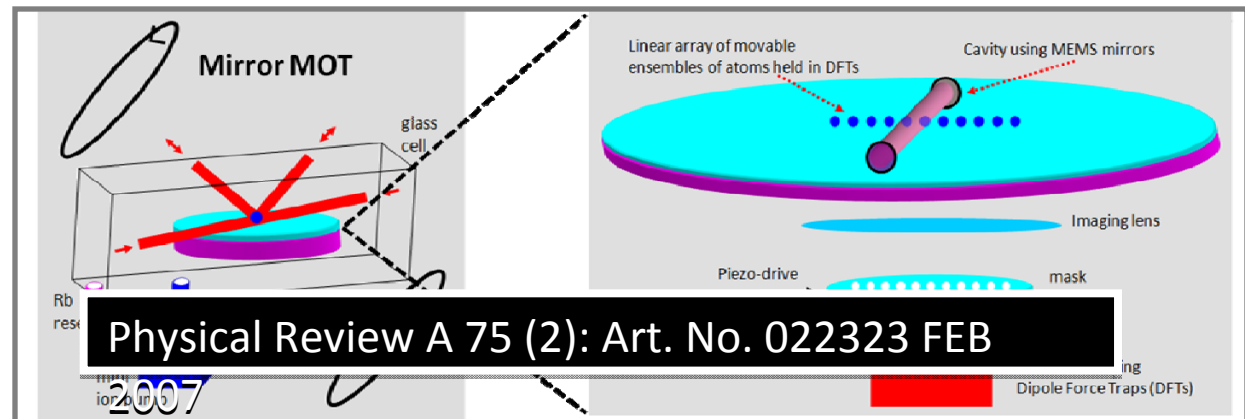
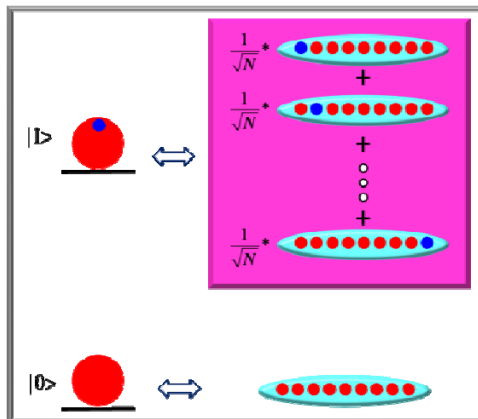
- **Lead Investigator:**

Selim Shahriar



Research Area of Interest:

- Neutral Atom Quantum Computing
- Atomic Ensembles under Light Shift Blockade as qubits
- Cavity QED used for two qubit coupling
- Optically controlled quantum motor
- Primary Ref: PRA 75 (2): Art No. 022323 (2007)





Capabilities

- Two Rb traps, Four Ti:Sapphire Lasers
- SLMs for Quantum Motors
- High and Moderate Q cavities in UHV chambers
- Expertise in light shift blockaded ensemble excitation
- Student support through NSF IGERT program



Specific capabilities our group is seeking

- Expertise in creating compact traps
- Expertise in making MEMS structures



Contact Information

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