

Syed Bahauddin Alam

Reactor Physics Modeling & Simulation

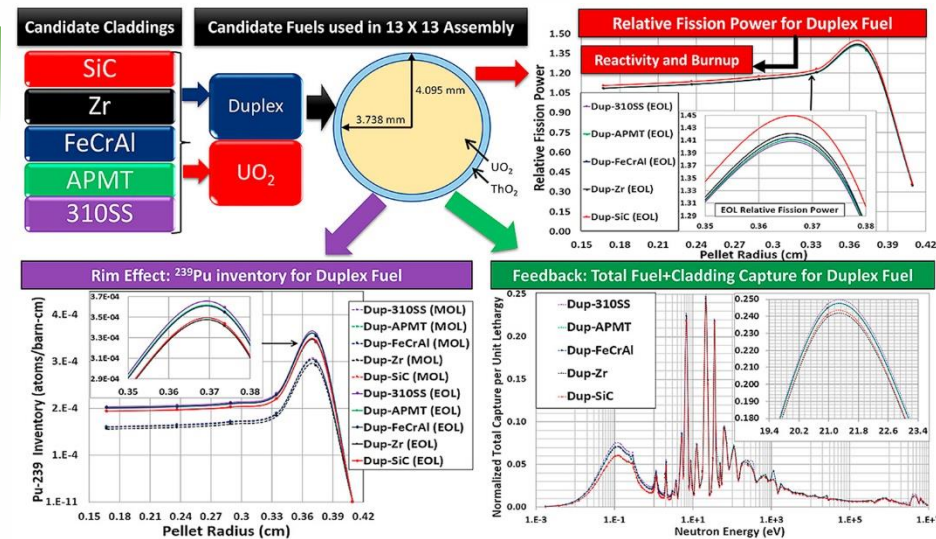
- Near-term deployable small reactors
- Multiphysics

Advanced Fuel Cycles

- Composite nuclear material
- Accident-tolerant fuel/cladding
- Fuel cycle design

Machine Learning

- Uncertainty quantification
- sensitivity analysis
- Deep learning
- Artificial intelligence



Advanced nuclear reactor concept

PoC:

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Keywords

- #Radiation-transport; #advanced-small-core; #Nonproliferation; #Multiphysics; #Machine-learning; #Uncertainty-quantification; Sensitivity analysis.

Recognitions

- Outstanding Teaching Award, Missouri S&T, 2021
- Best Student Paper Award at the ICAPP 2016
- Best Technical Poster Award at NURETH-16, 2015