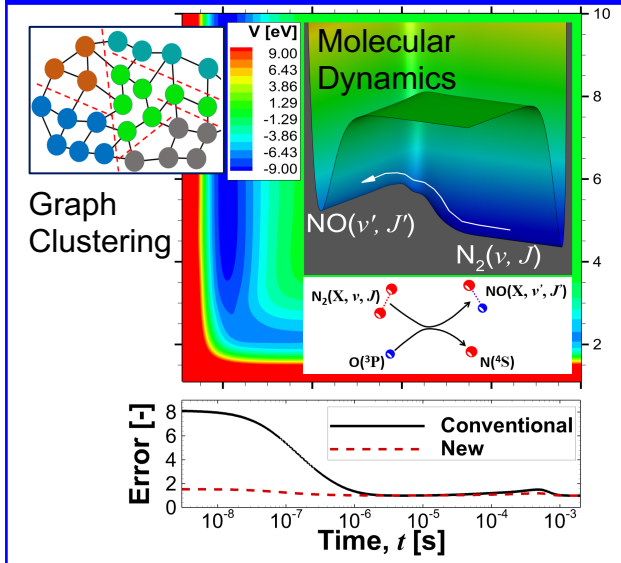
Research Novelty

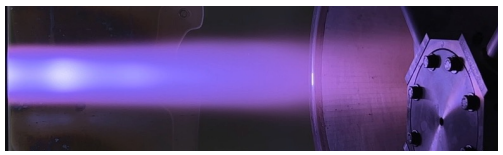
Breakthrough on Fundamentals

① High-fidelity Chemistry

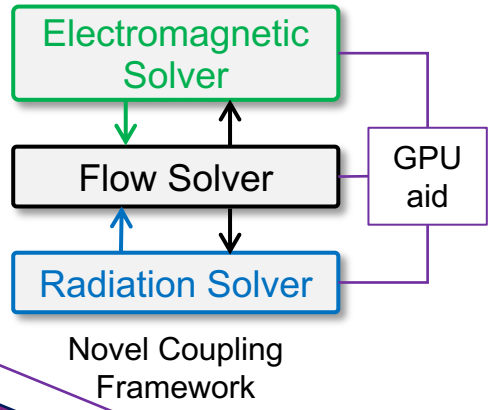


→ Eliminate ad-hoc assumption
→ First time understanding

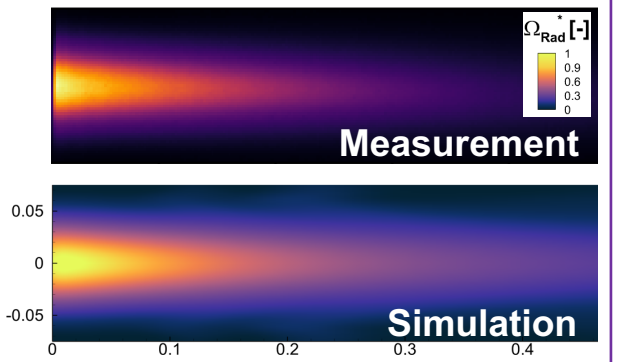
② Multi-physics Coupled Computational Methods



Multi-physics Coupled Plasma Jet

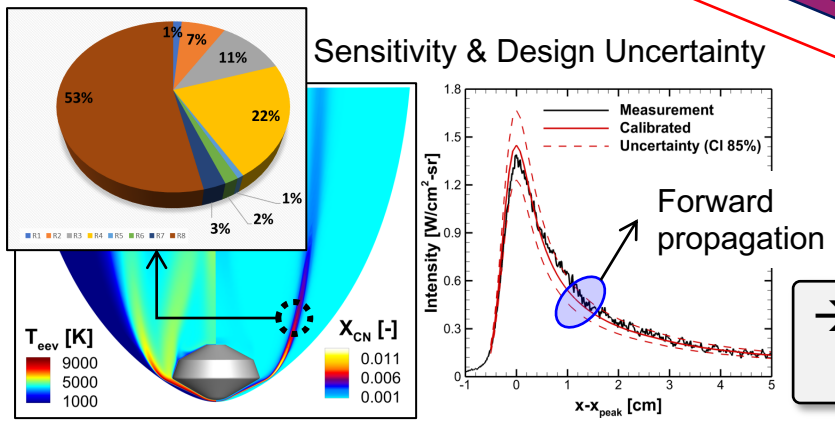


Novel Coupling Framework



→ State-of-the-art model
→ Towards next generation toolbox

③ Uncertainty Quantification



→ Next-generation entry mission design effort

Breakthrough on Applications