Jacobian-Free Newton-Krylov (JFNK) Methods for Nonlinear Neutronics/Thermal-Hydrualic Equations

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Outline

- 1 Introduction
 - Formulating the Nonlinear Problem
- 2 Governing Equations
- 3 Solvers
- Results
- 5 Conclusions



- 1 Introduction
 - Formulating the Nonlinear Problem

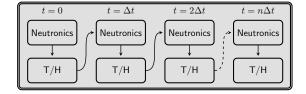


Motivation

Research is key



Common Approach to Coupling - Operator Splitting





Outline

- - Formulating the Nonlinear Problem
- 2 Governing Equations



- - Formulating the Nonlinear Problem
- 3 Solvers



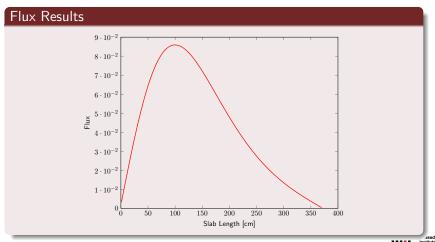
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- Results



Flux Results - Steady Solution







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- 5 Conclusions

