

# INTRODUCTION TO THE EINSTEIN TOOLKIT

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$$G_{\mu\nu} = 8\pi T_{\mu\nu}$$





# OVERVIEW

- Motivation
  - Numerical relativity basics & history
  - Grid-based PDE & CFD solution techniques
- Cactus: modular framework for grid-based HPC codes
  - Cactus design
- Einstein toolkit
  - Getting started
  - Thorns
  - Other software
  - The future/present (CarpetX)

