

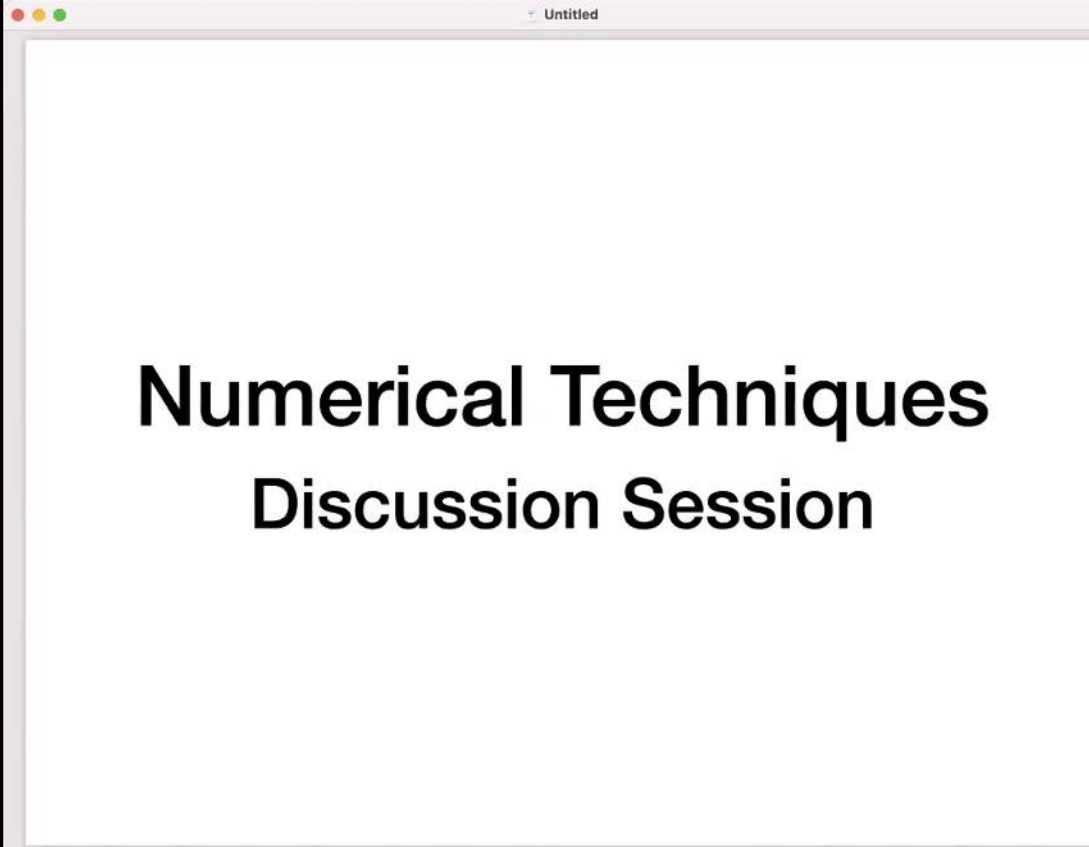
Title: Discussion: Numerical Techniques

Speakers:

Collection: The 24th Capra meeting on Radiation Reaction in General Relativity

Date: June 07, 2021 - 1:00 PM

URL: <http://pirsa.org/21060017>



# Suggested Discussion Topics

- Time domain methods
- Approaches to Kerr
- Second order
- Black Hole Perturbation Toolkit
- Waveform comparisons



# Time Domain Methods

- How do we make the most of improvements in time-domain methods we saw earlier?
- Which problems should time-domain methods be aiming to tackle in the near-term?
- Questions that time-domain/self-consistent evolutions are uniquely suited to answer?

# Approaches to Kerr

- Frequency domain with sources:
  - 2D  $(r - \theta)$  frequency domain Lorenz gauge
  - Radiation gauge with sources
  - Lorenz gauge metric reconstruction from Weyl scalars
- Time domain with sources?