ERIK WESSEL

SUPERNOVAE NUMERICAL RELATIVITY

- Extreme compactness requires GR effects
- Full GR still very difficult
- Custom approximations often developed
- Important to many fields in astronomy



ERIK WESSEL z = 0.0500 Mpc Adapted from Macpherson, Price, Lasky, 2019

COSMOLOGY NUMERICAL RELATIVITY

- Deep mathematical questions about universe at the largest scales
- Numerical relativity essential for some questions
- Still a nascent technique in the field