

# Developing the Core Collapse Supernovae Gravitational Wave Astrophysics Program

feedback from the theory community to be included in  
gravitational wave data analysis

# areas of interest

- Deterministic features to be included in the searches, waveform reconstruction and parameter estimation.
- Identify and produce waveforms that explore the parameter space of the progenitors (including understanding the uncertainties in the waveforms).
- Optimize multi-messenger astronomy for CCSNe
- Planning the future: preparing the supernova science case for 3rd generation instruments. Can we optimize the searches enough to expect regular CCSNe detections with planned or possibly SNe specifically aimed interferometers?

# Panelists

- Konstantin Yakunin (Oak Ridge - UT)
- Sherwood Richer (Caltech) - Sean Couch (MSU)
- Giulia Paglierini (Gran Sasso institute)
- Sarah Gossan (Caltech)
- Also check the posters from the LIGO-Virgo Supernova group!.