

Abstract Submitted
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Gravitational Waves Science with Core-Collapse Supernova

MAREK SZCZEPANCZYK, Embry-Riddle Aeronautical University, LIGO SCIENTIFIC COLLABORATION COLLABORATION — The advance-generation Gravitational Wave Observatories will provide remarkable sensitivity to detect Gravitational Waves from Core-Collapse Supernova. I will discuss the LIGO/Virgo efforts to infer the Gravitational Wave signature from exploding stars. I will summarize the endeavor to extract waveform details, estimate physical parameters and learn about Core-Collapse Supernova dynamics from Gravitational Waves observed from the next nearby Core-Collapse event.

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