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Extracting Physics from Gravitational Waves from Core-Collapse Supernovae MAREK SZCZEPANCZYK, Embry-Riddle Aeronautical University, LIGO COLLABORATION — Core-Collapse Supernovae (CCSN) are the spectacular and violent deaths of massive stars. In my presentation I will give an overview of searches targeting supernova signals in LIGO and Virgo data. In particular I will present results of a search for gravitational waves from CCSN, performed in initial LIGO and Virgo data including the methodology, upper limits and model exclusion statements. I will also describe the current efforts towards parameter estimation and waveform reconstruction.

Marek Szczepanczyk
Embry-Riddle Aeronautical University

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