

Online infrastructure for detecting the presence of the Standing Accretion Shock Instability in CCSNe GW candidates

Tuesday 22 July 2025 16:30 (2 minutes)

Core-collapse supernovae are exploding massive stars and the next Galactic event will be one of the most interesting astronomical events of the century. In recent paper (Phys.Rev.D 107 (2023) 8, 083017), the authors developed an algorithm for assessing the presence of standing accretion shock instability (SASI) in simulated gravitational waves in a core-collapse supernova, the so-called SASI-meter. In this poster we discuss the implementation of an online module to coherent WaveBurst high significance events with the purpose of assessing the presence of SASI. We discuss the computational times, receiver operating characteristic curves and results on noise only events.

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Session Classification: Poster Sparkler