## Abstract Submitted for the 4CS19 Meeting of The American Physical Society

Detectability of the SASI Activity of Supernova Neutrino Fluxes COLTER RICHARDSON, Embry-Riddle Aeronautical University, ZIDU LIN, CECILIA LUNARDINI, Arizona State University, MICHELE ZANOLIN, Embry-Riddle Aeronautical University, KEI KOTAKE, Fukuoka University — In this presentation we discuss the detectability of the Standing Accretion Shock Instability (SASI) signatures in the neutrino luminosity in Core-Collapse Supernovae (CCSN) and the capability to estimate some of its physical parameters. We apply the methodology to the luminosity as computed by numerical simulations of the CCSN, and the distortions that IceCube and Hyper-K would induce at different distances.

Colter Richardson Embry-Riddle Aeronautical University

Date submitted: 13 Sep 2019 Electronic form version 1.4