

Abstract Submitted
for the APR21 Meeting of
The American Physical Society

IceCube search for neutrinos from compact binary mergers reported by LIGO/Virgo RAAMIS HUSSAIN, ALEX PIZZUTO, JUSTIN VANDENBROUCKE, University of Wisconsin - Madison — The advent of gravitational wave and neutrino astronomy has led to an exciting era of multi-messenger astronomy. Identifying high-energy neutrino emission from compact binary mergers could shed light on the sources of neutrino emission as well as particle acceleration mechanisms in these compact binary systems. The LIGO-Virgo Collaboration (LVC) recently published its second gravitational wave transients catalog, GWTC-2, with a total of 39 compact binary merger candidates. We summarize results from neutrino follow up searches of all GW events reported in GWTC-1 and GWTC-2 using the IceCube Neutrino Observatory.

Raamis Hussain
University of Wisconsin - Madison

Date submitted: 08 Jan 2021

Electronic form version 1.4