Abstract Submitted
for the APR18 Meeting of
The American Physical Society

A Compact Binary Coalescence Search for Gravitational Wave Counterparts to Fast Radio Burst Events GREGORY WALSH, RYAN FISHER, Syracuse Univ — The era of gravitational wave astronomy has begun. With the recent joint observations of gravitational wave GW170817 and short gamma-ray burst GRB 170817A, multi-messenger astronomy has entered a new and golden age. Similar to gamma-ray bursts, fast radio bursts (FRBs) are energetic, millisecond radio pulses of extragalactic origin. We present the plan to conduct targeted searches for gravitational wave event counterparts to these FRB events in the data from the first and second observing runs of the Advanced Laser Interferometer Gravitational-Wave Observatory (LIGO).

Gregory Walsh
Syracuse Univ

Date submitted: 12 Jan 2018 Electronic form version 1.4