Abstract Submitted
for the APR21 Meeting of
The American Physical Society

Development of Gas Electron Multiplier Detectors at Hampton University[1] MICHAEL KOHL, ANGEL CHRISTOPHER, THIR GAUTAM, JESMIN NAZEER, TANVI PATEL, MALINGA RATHNAYAKE, MANJUKRISHNA SURESH, Hampton University — Gas Electron Multipliers (GEM) were introduced 25 years ago and have since been developed for a large variety of nuclear and particle physics experiments and applications. They are radiation hard, high-rate capable, and easy to handle. GEM detectors for ionizing charged particle detection including readout electronics are assembled from pre-manufactured parts by university-based students and postdocs, before the final products are deployed in experiments at off-campus research facilities. I will report about GEM detectors developed by my group at Hampton University, and their use in recent and in planned experiments (OLYMPUS, MUSE, DarkLight, TPEX, SBS).

[1]This work is supported by NSF HRD-1649909, PHY-1812402 and DOE DE-SC0013941.

Michael Kohl
Hampton University

Date submitted: 08 Jan 2021 Electronic form version 1.4