

TeV and Optical Observations of the Be/pulsar binary 1A 0535+262

-In this presentation we will discuss the joint optical and VHE follow-up of a flaring HMXB, 1A 0535+262, during a Type II X-ray outburst in 2020.

-1A 0535+262 is one of the only galactic pulsar systems to show radio jet emission and characterizing the VHE emission during it's brightest flare is critical to understand the contribution of these systems to the cosmic ray population. Optical studies of these systems also hold the potential to constrain interesting properties about the physics of jets.

-We will present the results of the VHE analysis throughout the flare as well as some initial investigation of the simultaneous NICER and optical data from VERITAS.

-No VHE emission was detected by VERITAS during this flare, and the optical studies currently shows no evidence of correlation with the X-ray data.

