## Abstract Submitted for the APR10 Meeting of The American Physical Society

Search for Gamma-ray Emission Coincident with Giant Radio Pulses from the Crab MARTIN SCHROEDTER, Iowa State University, VLADIMIR KONDRATIEV, West Virginia University, MAXIM LYUTIKOV, Purdue University, VERITAS COLLABORATION — The Crab Nebula is a pulsar-powered wind nebula and supernova remnant. Non-thermal pulsed and steady emission has been measured from radio to very-high-energy (VHE, E>100 GeV) gamma-ray energies. At radio wavelengths strong bursts, called giant pulses, are observed at irregular intervals, but no counterparts have been observed at VHE energies. Observations of the Crab were carried out simultaneously with the Green Bank Radio Telescope, Fermi and VERITAS. VERITAS, besides being the most sensitive VHE instrument is also sensitive to bursts of high energy (HE, >100 MeV) gamma rays with good sensitivity. We present the results of a search for HE and VHE gamma-ray emission in coincidence with radio giant pulses.

Martin Schroedter Iowa State University

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