

Abstract Submitted  
for the APR09 Meeting of  
The American Physical Society

**Search for emission at 100 GeV from the Crab pulsar in correlation with giant pulses in radio** ADAM NEPOMUK OTTE, SCIPP, VLADIMIR KONDRATIEV, MAXIM LYUTIKOV, VERITAS COLLABORATION, GBT TEAM — Pulsars are sources of non-thermal emission from radio energies to about 100 GeV gamma rays. In radio, some pulsars emit strong pulses, which last between a few microseconds and a few nanoseconds. The origin of these giant pulses is not understood but some argue that the emission of gamma-rays and giant pulses is tightly linked. Studies in gamma rays with the EGRET satellite did not find correlated emission with giant pulses. We present results of simultaneous radio-GeV observations with GBT and VERITAS that aim to correlate for the first time radio giant pulses with gamma rays above 100 GeV.

Adam Nepomuk Otte  
SCIPP

Date submitted: 09 Jan 2009

Electronic form version 1.4