

THE POTENTIAL OF MAGIC TO DETECT PULSED GAMMA-RAYS FROM EGRET SOURCES

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A special pulsar trigger has been defined by MAGIC to detect pulsed emission below 30 GeV from EGRET pulsars. The type of PMT employed for the pulsar trigger gives a collection area of 100 square meter at 10 GeV, which is significant larger than the EGRET collection area for the same energy, but at the expense of background. It is clear that MAGIC will be able to detect pulsed emission within one or a few nights of observation from nearly all pulsars, except from Geminga, for which the cutoff energy is too small. The capability of MAGIC to identify a new pulsar from the list of unidentified EGRET sources within a single night of observation, including the effect of trial periods, will be discussed.