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## Initial results from the MAGIC-II Datacenter at PIC

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A new data center has been deployed for the MAGIC Gamma Ray Telescope, located in the Roque de los Muchachos observatory in the Canary Islands, Spain, at the Port d'Informació Científica in Barcelona. The MAGIC Datacenter at PIC receives all the raw data produced by MAGIC, either via the network or tape cartridges, and provides archiving, rapid processing for quality control and calibration, reconstruction and generation of analysis datasets, and distribution of all levels of datasets to all institutes and users of the collaboration. In 2007, services will be expanded to include the submission of batch analysis by all members of the MAGIC collaboration. Additional services provided to MAGIC by PIC are a CVS server and Web-enabled databases for data catalogue, experimental conditions and calibration constants. Implementation of the Datacenter has required PIC to solve a number of challenges. One of them is the efficient mass storage handling for a large number of small files, which is accomplished by implementing Virtual Volumes based on ISO images stored on tape and mounted dynamically using automounter techniques. The other is coping with the limited WAN bandwidth available to the Roque de los Muchachos observatory and having to combine collection of raw data via network and tape cartridges. This paper summarizes the initial implementation of the MAGIC-II Datacenter at PIC, describes the main technologies deployed and gives the growth prospects for the next years.

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