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A distributed, Grid-based analysis system for the MAGIC telescope

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The observation of high-energetic gamma-rays with ground based air cerenkov telescopes is one of the most exciting areas in modern astro particle physics. End of the year 2003 the MAGIC telescope started operation.The low energy threshold for gamma-rays together with different background sources leads to a considerable amount of data. The analysis will be done in different institutes spread over Europe. The production of Monte Carlo events including the simulation of Cerenkov light in the atmosphere is very computing intensive and another challenge for a collaboration like MAGIC. Therefore the MAGIC telescope collaborations will take the opportunity to use Grid technology to set up a distributed computational and data intensive analysis system with nowadays available technology. The basic architecture of such a distributed, Europe wide Grid system will be presented. First implementation results will be shown. This Grid might be the starting point for a wider distributed astro particle Grid in Europe.

Authors: FORTI, A. (University of Udine);   DEANGELIS, A. (University of Udine);   BIGONGIARI, C. (INFN, Padua); CABRAS, G. (University of Udine); KORNMAYER, H. (FORSCHUNGSZENTRUM KARLSRUHE (FZK)); DELFINO, M. (PIC, Barcelona);   FRAILIS, M. (University of Udine);   HARDT, M. (FORSCHUNGSZENTRUM KARLSRUHE (FZK)); KUNZE, M. (FORSCHUNGSZENTRUM KARLSRUHE (FZK)); MAZZUCATO, M. (INFN-Padova); PIRAC-CINI, M. (University of Udine)

Presenter: KORNMAYER, H. (FORSCHUNGSZENTRUM KARLSRUHE (FZK))

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