

Contribution submission to the conference Heidelberg 2007

**Combination of the AMANDA and ICeCube Neutrino Telescopes and Monte Carlo Performance studies of the combined detector** — ANDREAS GROSS<sup>1</sup> and •MARTIN TLUCZYKONT<sup>2</sup> for the IceCube-Collaboration — <sup>1</sup>MPI für Kernphysik, Saupfercheckweg 1, 69117 Heidelberg — <sup>2</sup>DESY, Platanenallee 6, 15738 Zeuthen

The current IceCube telescope consists of 9 operational detector strings and will be extended to more than 20 strings during this years polar summer season 2006/2007. The full integration of the AMANDA detector into IceCube operation will be finalized in this season. This includes hardware synchronisation, combined triggering, common event building and a combined data analysis strategy. In this contribution, the Joint Event Builder (JEB) collecting data from both detectors and providing a combined data stream to the online filtering will be discussed. Furthermore, the expected performance of the detector based on Monte Carlo simulations of a combined AMANDA + 23-string IceCube detector will be presented.

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