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Status and Recent Results from the IceCube km^3 Neutrino Detector

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The IceCube neutrino detector has recently completed construction with the deployment of the full IceTop air shower array and 5160 optical sensors instrumenting 1 km^3 of deep ice at the Antarctic South Pole station. IceCube is the world's largest neutrino detector and has achieved a sensitivity that represents a new era in the search for neutrinos of astrophysical origin. In addition to searches for astrophysical neutrinos and the source of cosmic rays, IceCube has a broad physics program in neutrino oscillations, dark matter searches, cosmic-ray measurements and the search for exotic new physics. This talk will summarize the operational status, performance and results from the IceCube Collaboration using data taken during the construction phase, including the 2008-2009 and 2009-2010 detector configurations.

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