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## Measuring Cosmic Ray Composition at the Knee with SPASE-2/AMANDA-II

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### Abstract content

Important information pertaining to the origin of high-energy cosmic rays can be gained by studying their mass composition in the region of the knee ( $\sim 3$  PeV). Thus, air showers have been observed at the South Pole using the SPASE-2 surface array, which measures the electron-component, and the AMANDA-2 neutrino telescope, which measures the coincident muon-component. These two components, together with a neural network and a well-understood Monte Carlo simulation, yield the cosmic ray energy spectrum as well as the relative cosmic ray composition in the knee region. We report on the results of the analysis.

### If this paper is presented for a collaboration, please specify the collaboration

IceCube Collaboration

### Summary

### Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 2 (OG part 1), pages 165-168

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