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## **IceCube Performance with Artificial Light Sources & the road to Cascade Analyses**

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### **Abstract content**

IceCube is a 1 km<sup>3</sup> neutrino observatory now being built at the South Pole. In addition to its larger size, IceCube is also designed to have smaller systematic errors than its AMANDA predecessor. IceCube performance for showering ('cascade'-like) events has been studied with LED and laser light sources. The detector resolution for cascade position, energy and direction has been studied. After discussing IceCube performance for these light sources, we will present the status of IceCube cascade analyses.

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

IceCube

### **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. 3 (OG part 2), pages 1233-1236

**Primary author(s) :** Dr. KIRYLUK, Joanna (LBNL); Dr. D'AGOSTINO, Michelangelo; Dr. KLEIN, Spencer (Lawrence Berkeley National Laboratory); Dr. SONG, Chihwa (Department of Physics, University of Wisconsin, Madison, WI 53706); WILLIAMS, D. A. (Santa Cruz Institute for Particle Physics, University of California, Santa Cruz, Santa Cruz, CA 95064)

**Presenter(s) :** Dr. KIRYLUK, Joanna (LBNL)

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