Contribution ID: 22

R&D of light collection system using acrylic lens

Saturday 22 June 2013 10:05 (15 minutes)

In the current beseline design, the photo-coverage of the HK inner tank is 20%. For the low energy neutrino measurement (for example, a precise measurement of the solar neutrino spectrum or a measurement of the day-night asymmetry of the solar neutrino flux), higher photo-coverage is desirable. This R&D is to enlarge the effective photo-coverage using light collection system. I will show the current status of test measurements for a commercially available 30cm*30cm acrylic Fresnel lens.

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