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Status of XMASS experiment

XMASS is multi purpose low background and low energy threshold experiment using large amount of liquid xenon. The second stage of XMASS, 800kg detector, is now under construction. Main target of this detector is Dark Matter with sensitivity of 10^{-45} cm² in spin independent cross section. To keep background level as low as 10^{-4} /day/keV/kg level, experiment uses many key components such as newly developed extremely low BG PMT, water shield, purification system and self shielding effect of xenon itself. The detector construction started from end of last year. It will be finished around this July and commissioning will start soon after that.

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