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Investigaion of WLS on LAr ITEP test chamber

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Liquid argon (LAr) is widely used in experimental physics as a scintillator. The disadvantage of LAr is the short wavelength of scintillation light. The most popular way of wavelength shifting (WLS) is the use of tetraphenyl butadiene (TPB). The experimental study with the LAr test chamber is carried out at ITEP now in order to improve the light collection efficiency and the time characteristics of LAr scintillator by using TPB and Xe-doping to LAr simultaneously. Preliminary results of this study are presented in this poster.

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