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## Theia - A water-based liquid scintillator detector

Thursday 27 July 2017 16:30 (15 minutes)

Theia is a proposed multipurpose 50kT water-based liquid scintillator (WbLS) detector that aims to use the latest high precision photodetectors. WbLS is a novel scintillation medium that combines the high light yield and low-energy threshold properties of liquid scintillation, with the directionality and low attenuation length of water. This talk will discuss the principles of WbLS, ongoing research and development, and the expansive future physics potential of Theia.

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