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**Zeplin II Status Update** WEICHUNG OOI, HANGUO WANG, DAVID CLINE, UCLA, PETER SMITH, UCLA/RAL, ZEPLIN II COLLABORATION — We discuss the design, underground performance and current status of 32 kg Zeplin II two phase detector. Zeplin II is designed to observe low energy nuclear recoil events from hypothetical weakly interacting massive particles (WIMP). The detector records two signals from each event - the direct scintillation signal S1 in Xe liquid, followed by ionization signal S2 produced by ionization electron in gas phase via electroluminescence. The ratio of S1 and S2 discriminates nuclear recoils events from gamma recoil events.

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