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Supernova Neutrino Physics at a Large Water Cherenkov Detector KATE SCHOLBERG, Duke University, DUSEL LONG BASELINE COLLABORATION — The planned 300 kton scale water Cherenkov detector for the Deep Underground Science and Engineering Laboratory will have unprecedented capability for detection of neutrinos from core collapse supernovae. This talk will describe the supernova neutrino physics sensitivity of this detector, on its own and in combination with other detectors worldwide.

Kate Scholberg
Duke University

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