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Developments toward a High Resolution Next-Generation Water Cherenkov Neutrino Detector

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We present Monte Carlo studies of the impact of enhanced coverage, improved spatial and time-resolutions, and quantum efficiency on track reconstruction and particle identification in water Cherenkov counters. We discuss some of the reconstruction challenges and potential directions for an experimental water cherenkov program built around MCP-based photodetectors.

Author: WETSTEIN, Matthew (Argonne National Laboratory)

Presenter: WETSTEIN, Matthew (Argonne National Laboratory)

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