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Experimental Constraints on Neutrino Spectra Following Fission JIM NAPOLITANO, Temple University, DAYA BAY COLLABORATION — We discuss new initiatives to constrain predictions of fission neutrino spectra from nuclear reactors. These predictions are germane to the understanding of reactor flux anomalies; are needed to reduce systematic uncertainty in neutrino oscillation spectra; and inform searches for the diffuse supernova neutrino background. The initiatives include a search for very high-Q beta decay components to the neutrino spectrum from the Daya Bay power plant; plans for a measurement of the β^- spectrum from ^{252}Cf fission products; and precision measurements of the ^{235}U fission neutrino spectrum from PROSPECT and other very short baseline reactor experiments.

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