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Verification Datasets from Project 8 Development[1] LAURA GLADSTONE, Case Western Reserve Univ, PROJECT 8 COLLABORATION — The Project 8 neutrino experiment seeks to determine the absolute neutrino mass scale by measuring the energy of electrons from beta decays, using a novel technique. The technique, called Cyclotron Radiation Emission Spectroscopy (CRES), has been demonstrated at the single-electron scale. In addition to the standard checks for known decay peaks in the energy spectrum, the CRES data can be validated by injecting tones of known frequency, or by observing the CRES emitted by a free electron that is driven by an injected RF wave. The status of these cross-checks will be discussed within the context of planning future development of Project 8.

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