

Abstract Submitted  
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**Tritium  $\beta$ -Energy Spectrum Analysis in Project 8 Phase II<sup>1</sup>** YU-HAO SUN, Case Western Reserve University, PROJECT 8 COLLABORATION — The Project 8 experiment aims to determine the absolute neutrino mass scale by searching for a distortion to the tritium  $\beta$ -energy spectrum near the endpoint using the Cyclotron Radiation Emission Spectroscopy (CRES) technique. The first molecular tritium  $\beta$ -energy spectrum using CRES has been observed in Phase II of Project 8, from which the endpoint energy has been extracted. This talk presents the data analysis of the tritium  $\beta$ -energy spectrum to produce the final result of the Phase II endpoint measurement, with a focus on systematic effects.

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