

Abstract Submitted
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The MUSE Scattered-Particle Scintillators¹ ANNE FLANNERY,
University of South Carolina, MUSE COLLABORATION — The MUon Proton
Scattering Experiment (MUSE) at the Paul Scherrer Institute will measure the
muon-proton and electron-proton elastic cross sections in the same experiment. The
scattered-particle scintillators (SPS) are part of the event trigger and help with
the particle separation and reaction identification via time-of-flight (TOF) measure-
ments. These detectors are made out of organic plastic scintillators (EJ-204), which
are up to 220-cm long, and are read out with Hamamatsu R13435 photomultiplier
tubes. This presentation will discuss methods to determine the energy calibration,
signal attenuation, and thresholds of the SPS detectors.

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