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[386] Detection System for NoMoS

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NoMoS, the neutron decay products momentum spectrometer, investigates the beta decay of the free neutron. It uses the $R \times B$ drift effect in a uniformly curved magnetic field and a spatially resolving detector to separate and measure the charged decay particles according to their momentum. The protons from the decay are low energetic and need to be made detectable, therefore require post-acceleration by a high voltage electrode that surrounds the detector. The poster shows the preliminary detection system and systematic effects introduced by the high voltage applied to the detector and the electrode.

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