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The PHENIX Time Expansion Chamber MARZIA ROSATI, *Brookhaven National Laboratory*, FOR THE PHENIX COLLABORATION¹ — The R&D of a Time Expansion Chamber (TEC/TRD) for the RHIC collider PHENIX detector is completed and construction will start soon. The TEC/TRD will track all particles passing through the detector and distinguish electrons from pions contributing to the particle identification. Prototype chambers were tested in a secondary beam of negatively charged particles at the AGS. An electron-pion separation at levels up to a factor of 200 by dE/dx was measured. This separation factor was measured as a function of the particle momentum and angle, and the gas gain. We will be reporting on design details and test results.

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