Session B11 - Light Particle Interactions I.
ORAL session, Saturday morning, April 05
Washington C, Loews Philadelphia Hotel

[B11.003] A new high-precision measurement of radiative pion and muon decays

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We have performed a simultaneous analysis of the radiative pion and muon decay events, $\pi^+ \to e^+\nu_e\gamma$ and $\mu^+ \to e^+\nu_e\nu_\mu\gamma$, respectively, contained in the full data set acquired to date in the PIBETA experiment at PSI. We report on new partial branching ratios obtained by normalizing the experimental radiative decay yields to the measured rates of the $\pi^+ \to e^+\nu_e$ and $\mu^+ \to e^+\nu_e\nu_\mu$ decays, respectively. We also present new limits on the non-(V-A) terms in the weak decay matrix elements of the pion and muon.

Part B of program listing