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Heavy flavor electron v_2 in Au+Au Collisions at $\sqrt{s_{NN}}$ =62.4 GeV LEI DING, Iowa State University, PHENIX COLLABORATION — Heavy quarks are produced early in relativistic heavy ion collisions and propagate through and interact with the medium created in the collisions. The measurement of azimuthal anisotropy v_2 of single electrons from semi-leptonic decay of open heavy flavor mesons in PHENIX experiment has provided important understanding of the geometrical dependence of partonic energy loss. PHENIX results of v_2 in Au+Au collision at $\sqrt{s_{NN}}$ =200GeV for heavy-flavor decays are comparable to the v_2 measurements of other hadrons, which is not well understood. We extend the PHENIX systematic study of azimuthal anisotropy by reducing the beam energy to $\sqrt{s_{NN}}$ =62.4GeV. We will present v_2 of heavy flavor electrons at 62.4GeV.

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