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Beam dynamics in the Muon ($g-2$) experiment VLADIMIR TISHCHENKO, Brookhaven Natl Lab, MUON G-2 COLLABORATION — Major systematic uncertainties in the Muon ($g - 2$) experiment are related to beam dynamics in the muon storage ring. In this talk, we give an overview of the beam dynamics in the storage ring, describe major beam-dynamics-related systematic uncertainties, and present preliminary results of our measurements of characteristics of the muon beam.

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