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Muon $g-2$ Electrostatic Quadrupole System Plate Alignment

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The Muon $g-2$ experiment uses electrostatic quadrupoles for vertical focusing in the muon storage ring, where higher-order electric field multipoles produce non linearities in the restoring forces. Top/bottom quadrupole plates are aligned to 0.5 mm and side plates are aligned to 0.75 mm over long length scales to limit the higher-order multipoles. Plate alignment techniques and an electric field map generated with OPERA 3D software are presented in this poster.

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