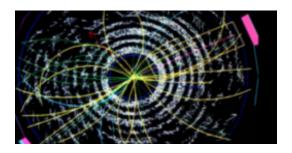
## **New Perspectives 2017**



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## Muon g-2 Electrostatic Quadrupole System Plate Alignment

Tuesday, 6 June 2017 16:15 (15 minutes)

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.

**Primary authors:** Dr RAMBERG, Erik (Fermi National Accelerator Laboratory); Dr NGUYEN, Hogan (Fermilab); Mr WU, Wanwei (University of Mississippi)

**Co-authors:** SCHLESIER, Cristina (University of Illinois); Dr CRNKOVIC, Jason D. (BROOKHAVEN NATIONAL LABORATORY); HOLZBAUER, Jenny (University of Mississippi); GRANGE, Joe (Argonne National Lab)

Presenter: SCHLESIER, Cristina (University of Illinois)

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