



# Do we see a new interaction in the magnetic moment of the muon?

**Tuesday, 3 September, 2024**  
**Auditorium & Webcast 16:00 h**

**ZOOM ID: 996 1652 8733**  
**Meeting Password: 733220**

**Zoltan Fodor (Penn State/Wuppertal/FZJ)**

Recently strong disagreement has been found between the measurements of the muon's magnetic moment and the reference Standard Model prediction. Such a large discrepancy should signal the discovery of interactions or particles not present in the Standard Model. Here we present a new first-principle calculation of the least known contribution. An agreement with the Standard Model at the 0.9-sigma level is found. This provides a remarkable validation of the Standard Model.

