Contribution ID: **58** Type: **Oral presentation using Zoom**

$(g-2)_\mu$ and M_W predictions in the MSSM

Wednesday 27 October 2021 19:00 (24 minutes)

The confirmed $(g-2)_\mu$ anomaly can perfectly be fitted in the Minimal Supersymmetric Standard Model (MSSM), taking into account all experimental constraints. This requires a relatively light electroweak sector of the MSSM, which in turn can give rise to positive contributions of the W boson mass, M_W. We analyze these predictions in view of the anticipated improved measurements of M_W at the ILC and their possible impact on the allowed parameter space.

1st preferred time slot for your oral presentation

19:00-21:00 JST (12:00-14:00 CEST, 6:00-8:00 EDT, 3:00-5:00 PDT)

2nd preferred time slot for your oral presentation

10:00-12:00 JST (3:00-5:00 CEST, 21:00-23:00 EDT, 18:00-20:00 PDT)

Primary authors: BAGNASCHI, Emanuele (PSI); WEIGLEIN, Georg Ralf (Deutsches Elektronen-Synchrotron (DE)); HEINEMEYER, Sven; SAHA, Ipsita (Kavli IPMU); CHAKRABORTI, Manimala (Astrocent, Warsaw); BAGNASCHI, Emanuele Angelo (Universita e INFN Roma Tre (IT))

Presenters: BAGNASCHI, Emanuele (PSI); BAGNASCHI, Emanuele Angelo (Universita e INFN Roma Tre (IT))

Session Classification: I: Electroweak physics

Track Classification: Parallel sessions: Topical Groups: Session I: Electroweak physics