

Stau study at the ILC and its implication for the muon $g-2$ anomaly

Shin-ichi Kawada, Motoi Endo (KEK),
Koichi Hamaguchi, Takeo Moroi (Tokyo U),
Sho Iwamoto (Eötvös Loránd U),
Teppei Kitahara (Nagoya U),
Taikan Suehara (Kyushu U)

Strategy Meeting: Apr./20

- TH: Endo, Hamaguchi, Iwamoto, Kitahara, Moroi
- EXP: Suehara, SK
- Discussed what should we do next/long term
- Next one is already scheduled on May/10

Short term: Snowmass White Paper

- SK: add eLpR numbers and plots well before than Apr./20
 - DONE, already added some draft sentences to the paper
- Endo: finalize results well before than Apr./20
 - muon $g-2$ contribution can be reconstructed with $\sim 8\%$ precision (eRpL only) ---> $\sim 1\%$ precision (both combined) ---> preliminary results! Need validation
- All: edit, re-submit, then FULL STOP for this white paper

Long term: Full Journal Paper

- TH: need to discuss for determination of model point (one or a few points) ---> postponed due to drastic results
- EXP: then will generate full simulation samples for SUSY event
 - Need to learn or need help of specialist how to do full detector simulation properly