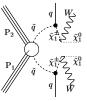
## Search for new physics with disappearing tracks

• Facilitators:Sam Bein,Lisa Benato,Viktor Kutzner,Karla Pena,Melanie Fich

• MSSM sectors predict  $c au\sim$ 1-1000 cm charginos



- New search for tracks that terminate in CMS tracker. Students will
  - receive signal model and background ntuples, short track selection
  - optimize a signal region, measure prompt/fake background, uncertainty
  - unblind portion of data, interpret result
- Background estimation methods to be developed in next 3-4 months,
  1 month to evaluate uncertainties/interpret,
  1 month to condense
- Special requirements: bird/condor access
- Relevant short exercises: LL-tracking-vertex, jets, MET