

# Exercise 2

❑ **General Question : can we miss a 1 TeV gluino at LHC8 ?**

❑ **6 Group of 5 students to investigate in Public web pages:**

- ATLAS-RPC vs CMS-RPC
- ATLAS-RPV vs CMS-RPV
- ATLAS LLP vs CMS LLP

## Public pages

<https://twiki.cern.ch/twiki/bin/view/AtlasPublic/SupersymmetryPublicResults>

<https://twiki.cern.ch/twiki/bin/view/CMSPublic/PhysicsResultsSUS>

<https://twiki.cern.ch/twiki/bin/view/CMSPublic/PhysicsResultsEXO>

❑ **Organisation:**

- 20' : Put in context: why finding the gluino is so important ?
- 40' : List of all possible gluino decays at LHC [WIDE DISCUSSION]
- 60' : Extract gluino mass limits from ATLAS/CMS web page [Half ATLAS and Half CMS]
- LUNCH -----
- 60' : Debriefing information → Conclusion [Half ATLAS and Half CMS]
- 30' : Did ATLAS/CMS miss something ?
- 30' : Prospect for the LHC restart