Student Projects CLASHEP 2019

— introduction —

Martijn Mulders (CERN)
Next Sunday, March 24
After dinner

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<td>Discussion Sessions (until 19:00)</td>
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Each Discussion Group:

• **Choose one experimental paper**, published in a refereed journal

• **Study and understand in detail** all aspects of the analysis described in the paper (trigger, selection, backgrounds, statistical analysis, systematic uncertainties, theoretical interpretation... etc). Follow up references and make use of relevant public-domain material

• **Prepare a 15-minute presentation** of your group’s study, to be presented by **one student** from your group, on Sunday March 24 after dinner

• **The order** of the talks will be **random** and there will be a vote to determine the winning presentation (one vote per group)
Further guidelines:

• It is better to choose a longer article than a short letter – **at least 10 pages** of content, not counting abstract, references and author list

• Once you have chosen a paper, **let me know**

• We can provide **paper copies** (for your group) of the paper you select

• You can use **some** time during the discussion sessions to get organized, but most of the work should happen **during free time**

• **Work as a team** to decide on a paper, plan and share the work, review progress regularly, combine the contributions, select a speaker to represent you, organize a rehearsal of the talk…

• It is a **student project**: the DL may guide occasionally, but it is up to **you as a team** to select the paper, share the work, monitor progress, etc
Group A

1. Searches at the LHC

Group B

2. SM measurements at the LHC

Group C

3. Flavour physics

Group D

4. UHE Cosmic Rays

Group E

5. Neutrino physics
Start project: today
Paper choice: before Wed 11:00 am
Presentation: next Sunday

Enjoy the project!

Questions?
Some Schedule Changes

• **Today:**
  – Lunch starts at 13:00 as usual
  – Lecture at 15:30 → **Statistics lecture 3**
  – Coffee break 17:00-17:30
  – Lecture at 17:30 → **Higgs lecture 1**
  – Discussion Session

• **Tomorrow morning:**
  – first QCD 2, then Higgs lecture 2

• **Tuesday:**
  – Early discussion session at 15:30 (replaces lecture)
  – Two hours free time 17:30-19:30
    (between coffee break and early dinner)
  – Poster session 20:30