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12-25 JUNE 2024
Nakhon Pathom, Thailand

Introduction to the **Student Project**

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Outline of the Project

- For the student project you will work in a team
 - ➔ Each discussion group will form a team

- Your task as a team will be:
 - ➔ Select a published experimental paper on a given physics subject
 - ➔ As a team, study and understand all aspects of the paper (trigger, selection, backgrounds, statistical analysis, systematic uncertainties, theoretical interpretation, ...)
 - ➔ Together, prepare a 15 minute presentation on the paper (+ 5 minutes for questions)
 - ➔ The presentation will be given by one member of the team

Further Guidelines

- Pick a suitable paper for a 15 min. presentation
 - ➔ Typically one looks for a paper of at least ~10 pages
 - ➔ Please let me know, once you have decided
 - ➔ We can also provide printed copies of the paper

- Work on the project as a team
 - ➔ You can use part of the discussion session to get organised
 - ➔ Most of the work should happen in your free time
 - ➔ Discuss and select the paper together, plan and share the work, review progress regularly, combine the contributions, select a speaker, organise a rehearsal of the talk...
 - ➔ It is a student project, you may ask the discussion leaders for guidance if needed, but the task is on you

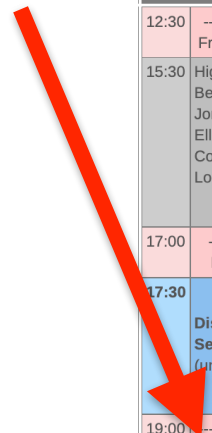


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Timeline

- Assign topics to groups now
- Groups select paper by Tuesday 15:30 latest
- Special session for the presentations on Sunday, June 23
 - ➔ Order of talks will be random
 - ➔ There will be a vote to determine the winning presentation (1 vote per group)

23 Jun 2024	
09:00	Hadron Spectroscopy 1 - Chengping Shen (Fudan University (CN)) (0)
10:30	--- Coffee Break ---
11:00	LHC and Beyond - Joao Barreiro Guimaraes Da Costa (Chinese Academy of Sciences (CN)) (0)
12:30	--- Lunch + Free time ---
15:30	Higgs and Beyond 3 - Jonathan R. Ellis (King's College London) (0)
17:00	--- Coffee Break ---
17:30	Discussion Session (until 19:00)
19:00	--- Dinner ---
20:00	Student Projects (until 23:00) (0)





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Physics Topics

- 1) Searches at the LHC
- 2) Higgs measurements
- 3) QCD or Electroweak precision measurements
- 4) Flavour physics measurements
- 5) Heavy Ion measurements
- 6) Neutrino physics
- 7) Hadron Spectroscopy

We will pick 6 out of the 7 possible topics at random ₅

Assigning Subjects to Groups

Discussion Group A

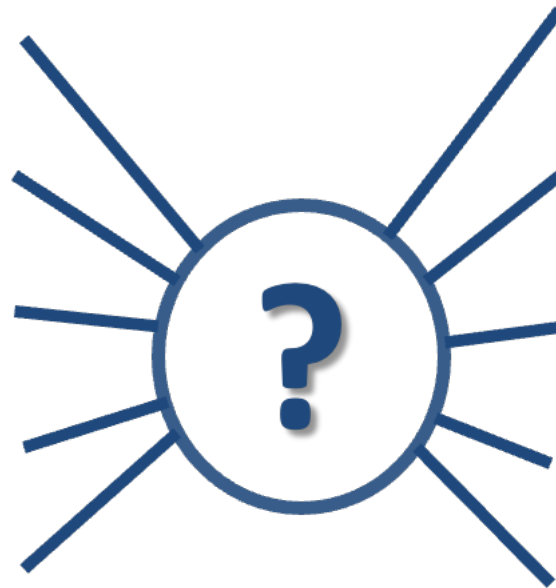
Discussion Group B

Discussion Group C

Discussion Group D

Discussion Group E

Discussion Group F



Searches at the LHC

Higgs measurements

QCD or Electroweak precision
measurements

Flavour physics measurements

Heavy Ion measurements

Neutrino physics

Hadron Spectroscopy



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Questions ?



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Have fun with the projects !



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Subjects assigned to Groups

Discussion Group A:	Hadron Spectroscopy
Discussion Group B:	Higgs measurements
Discussion Group C:	Neutrino physics
Discussion Group D:	Flavour physics measurements
Discussion Group E:	Searches at the LHC
Discussion Group F:	Heavy Ion measurement