

A E P S H E P

The first Asia-Europe-Pacific School of High-Energy Physics

Student Projects

-- introduction --

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Thursday, October 25, 2012		Friday, October 26, 2012		Saturday, October 27, 2012	
08:00	--- Breakfast ---	08:00	--- Breakfast ---	08:00	--- Breakfast and DEPARTURE ---
09:00	LHC results highlights 2 - Shoji Asai (University of Tokyo)	09:00	Cosmology, astro-particle physics and dark matter 2 - Hitoshi Murayama (IPMU Tokyo & LBL Berkeley)		
10:30	--- Coffee ---	10:30	--- Coffee ---		
11:00	Neutrino physics 3 - Zhi-Zhong Xing (IHEP Beijing)	11:00	Cosmology, astro-particle physics and dark matter 3 - Hitoshi Murayama (IPMU Tokyo & LBL Berkeley)		
12:30	--- Lunch ---	12:30	--- Lunch and free time ---		
13:30	--- Free time ---	15:00	Particle physics in Europe - Rolf Heuer (CERN)		
15:45	Cosmology, astro-particle physics and dark matter 1 - Hitoshi Murayama (IPMU Tokyo & LBL Berkeley)	16:00	--- Coffee ---		
17:15	--- Coffee ---	16:30	Particle physics in Asia - Atsuto Suzuki (KEK)		
17:30	Discussion Session (until 19:00)	17:30	Discussion Session (until 19:00)		
19:00	Dinner	19:00	--- Dinner ---		
20:00	--- STUDENTS PROJECT PRESENTATIONS ---	20:30	--- Farewell Party ---		

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; don't hesitate to ask questions..!
- Prepare a 10-minute summary of your group's study, to be presented by one student from your group, on Thursday October 25 → the session will be chaired by **John Ellis**

Further guidelines:

- It is probably better to choose a longer article than a short letter – **at least 10 pages** of content, not counting abstract, references and author list, preferably more
- 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, and elect the speaker

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Group A

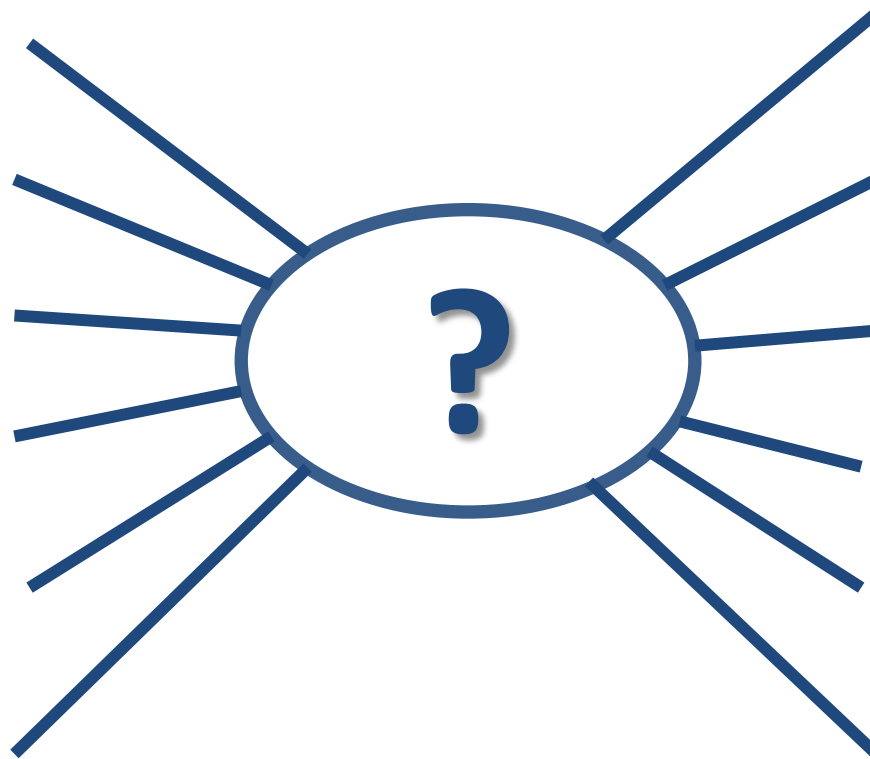
Group B

Group C

Group D

Group E

Group F



1. Searches at the LHC

**2. SM measurements
at a collider**

3. Heavy Ion physics

4. Flavor physics

**5. Terrestrial
Neutrino physics**

6. Astroparticle physics

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Enjoy the project!

Questions?