

CERN Student Summer School 2009

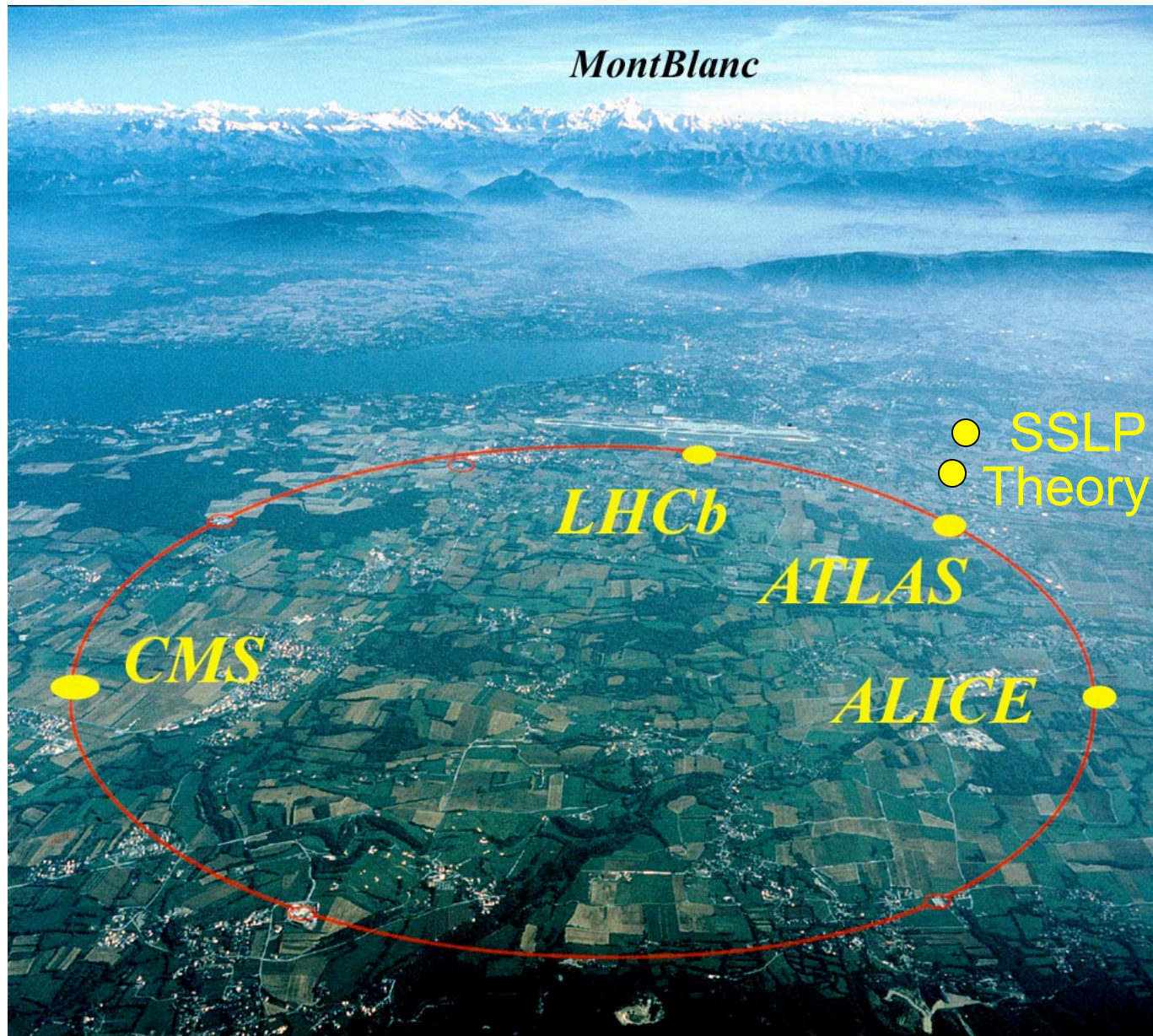
James Wells

July 1, 2009

Summer Programme Team

- Ingrid Schmid (HR)
- Catherine Nederman (HR)
- James Purvis (HR)
- Laura Saulnier (HR - student)
- Andreas Hoecker (Experiment)
- Luca Malgeri (Experiment)
- Dirk Duellmann (IT-DM)
- Werner Herr (BE-ABP)
- Christophe Grojean (Theory)
- James Wells (Theory, Chair)

CERN is an exciting place



Advantages and Opportunities of working at CERN

- Opportunity to work at most advanced experimental facility.
- Large community of leading theorists, experimentalists, computing experts, accelerator physicists, engineers, etc.
- Exemplifies international cooperation.
- This is where discoveries are made.

Some Major Discoveries at CERN

- Neutral Currents (1972)
- W and Z bosons (SPS) 1983
- Number of light neutrino families (LEP) 1991
- Precision tests and constraints on Higgs (LEP) 1991-2000
- Evidence for quark gluon plasma (Heavy Ions)
- Creation of anti-hydrogen in the laboratory 2002

We expect many more discoveries in the near future, perhaps some by you!

CERN Student Summer School

Goals: Expose students to forefront research, aid in their development as scientists, teach them knowledge and skills for future work.

These goals are achieved through a series of lectures on theoretical and experimental physics, and through individual work within a group at CERN.

Your engagement is crucial! Get involved, ask questions, go to group meetings, discuss with fellow students, work hard,

Lectures

Lectures have been planned on the most important topics you need to learn to better your career now.

Lecturers have been selected because they are one of the top individuals in their fields, and have experience presenting material pedagogically.

Nevertheless, it will not be easy! But that is good....

There is a discussion period set aside at the end of each day's lectures for you to ask lecturers questions.

The 2009 Lecture Programme

Lecture Programme can be found at URL <http://is.gd/1d5su>

Many categories of research represented.

Experimental Physics (Accelerators, Detectors, hadron colliders, neutrino physics, CP violation, ATLAS/CMS commissioning, Astrophysics, Antimatter, nuclear physics, and heavy ions)

Theoretical Physics (quantum field theory, Standard Model, beyond the Standard Model, cosmology and astroparticle physics, etc.)

Other (Statistics, electronics, daq systems, medical physics, etc.)

2009 SSLP Activities

Lectures everyday from 9:15-12:00, and discussion session from 12:00-12:30.

We will host several workshops -- see next presentation by Niko Neufeld.

Student Poster Session will take place afternoon of Wed Aug 5th. Student Presentations mornings of Aug 11 & 12.

... Do not forget the welcome drink today at 17:00.

And finally

For administrative and scheduling questions, please contact Ingrid, Catherine or Laura.

Feel free to contact me with questions or comments you might have:

james.wells@cern.ch

Opportunity to give helpful feedback with the student questionnaire.

Enjoy CERN, Geneva, your research group, and the lecture series!