

Welcome to the 2015 CERN-Fermilab Summer School

24th June - 3rd July

on behalf of

- Filip Moortgat, Giulia Zanderighi (co-chairs)
- Patricia Mage-Granados and Zinovia Gkagianni (organisers and secretariat)

if you need a certificate of attendance email Patricia and she will provide it at the end of the school

- the local organising committee: Nick Ellis, Vladimir Gligorov, Heather Gray, Alexander Kalweit, Andre Tinoco Mendes, Andi Weiler

they, together with Filip and myself, will be chairing the sessions

The school program

	We 24 th	Th 25 th	Fr 26 th	Sa 27 th	Su 28 th	Mo 29 th	Tu 30 th	We 1 st	Th 2 nd	Fr 3 rd	
	Welcome										
9.00 - 10.00	Standard Model 1/3 Y. Nir	Standard Model 2/3 Y. Nir	Standard Model 3/3 Y. Nir	BSM Theory 1/4 M. Schmaltz	E X C U R S I O N	BSM Theory 2/4 M. Schmaltz	BSM Theory 3/4 M. Schmaltz	BSM Theory 3/4 M. Schmaltz	Accelerators 1/2 Zimmermann	Accelerators 2/2 Zimmermann	
	coffee	coffee	coffee	coffee		coffee	coffee	coffee	coffee	coffee	coffee
10.30 - 11.30	Statistics 1/3 K. Cranmer	Statistics 2/3 K. Cranmer	Statistics 3/3 K. Cranmer	Heavy Ions 1/2 J. Grosse-Oetringhaus		Heavy Ions 2/3 J. Grosse-Oetringhaus	Heavy Ions 3/3 J. Grosse-Oetringhaus	Future Detectors 2/3 W. Riegler	Future Detectors 3/3 W. Riegler	Flavour 3/3 T. Gershon	
11.30 - 12.30	Higgs Analysis 1/3 M. Kado	Higgs Analysis 2/3 M. Kado	Top 1/2 A. Lister	Higgs Analysis 3/3 M. Kado		Top 2/2 A. Lister	Future Detectors 1/3 W. Riegler	Flavour 1/3 T. Gershon	Flavour 2/3 T. Gershon	20 years of top: the discovery story B. Klima	
	lunch	lunch	lunch	lunch		lunch	lunch	lunch	lunch	lunch	lunch
14.30 - 15.30	Dark Matter Astroparticle N. Weiner	QCD & Monte Carlo 1/3 P. Skands	QCD & Monte Carlo 2/3 P. Skands	QCD & Monte Carlo 3/3 P. Skands		Trigger & DAQ 1/2 G. Raven	Trigger & DAQ 2/2 G. Raven	BSM exp 1/2 P. Sphicas	BSM exp 2/2 P. Sphicas	Wrap-up	
	Discussion Session 16.00 - 17.30	Discussion Session 16.00 - 17.30	Discussion Session 16.00 - 17.30	Discussion Session 16.00 - 17.30		Physics at Future Colliders M. Mangano	Discussion Session 16.00 - 17.30	Discussion Session 16.00 - 17.30	Discussion Session 16.00 - 17.30	Discussion Session 16.00 - 17.30	CERN VISIT
	WELCOME COCKTAIL			BBQ					FAREWELL DINNER		

special announcements for the day at 9.00

- all lectures will be in the Council Chamber (i.e. here)
- three special lectures on three topical subjects
- discussion sessions will be split in 8 groups

Discussion sessions

Every afternoon (except 29th and 3rd) from 16:00 to about 17:30

- an important feature of the school
- opportunity to discuss the material of the lectures, bring up related topics and ask related questions
- also time to ask questions right after the lecture

Eight discussion groups, each assigned a theoretical and an experimental discussion leader, who will be both present all days (or almost)

- lecturers will also tour through the group -- keep very specific questions for them
- experts on heavy ion and heavy flavour will be there for particular sessions

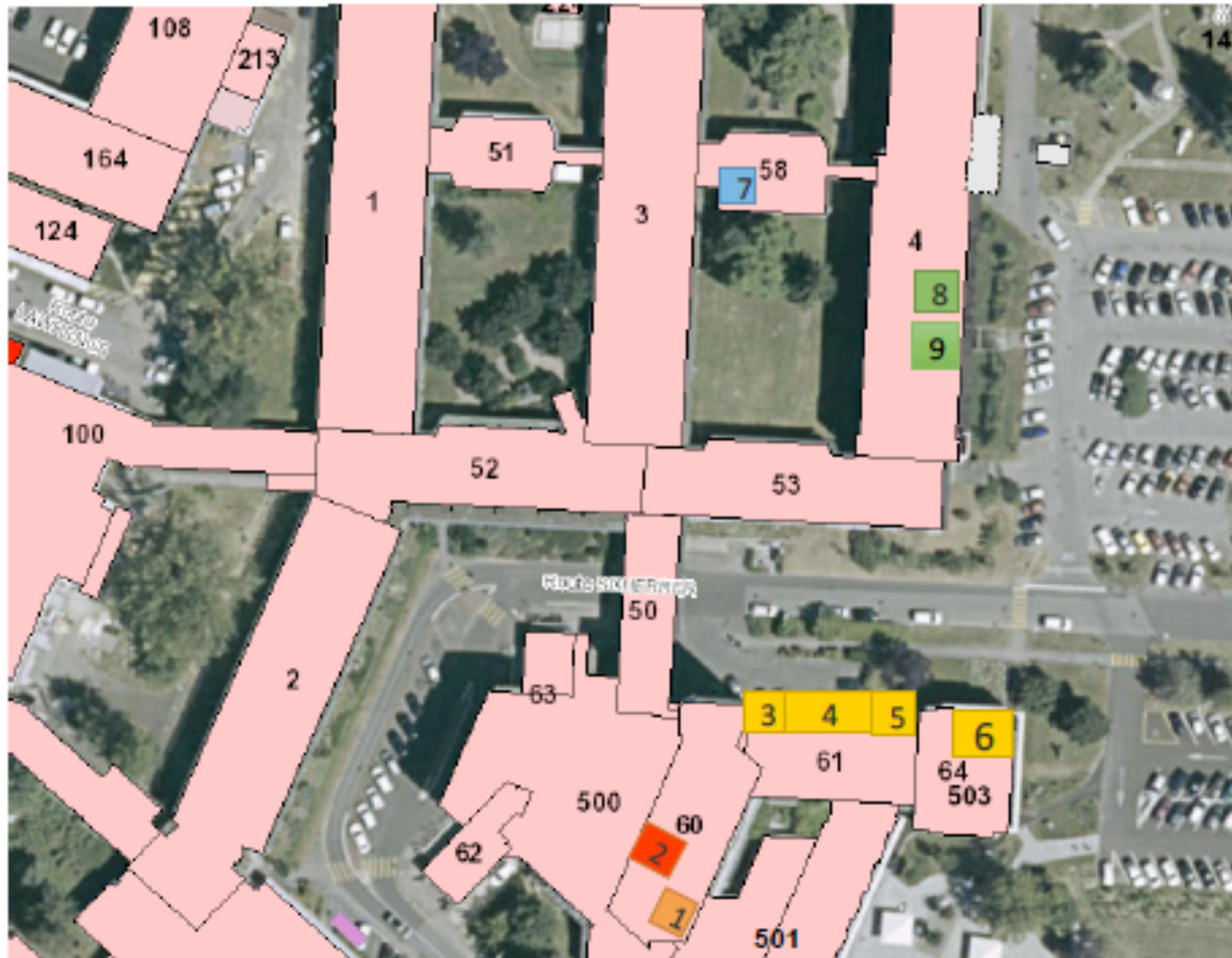
Discussion group allocations

Group	Room	Theory	Experimental	Flavour	Heavy Ions
1	60/2-023	Markus Schulze	Marc Dunser	Sevda Esen	Davide Caffarri
2	60/5-012	Fabrizio Caola	Géraldine Conti	Sevda Esen	Davide Caffarri
3	Room B	Daniel Stolarski Roberto Pittau	Bruno Lenzi	Tim Head	Leticia Cunqueiro
4	Room C	Pedro Schwaller Matteo Cacciari	Nick Wardle	Tim Head	Leticia Cunqueiro
5	Room D	Sebastian Sapeta	Tristan Du Pree	Conor Fitzpatrick	Alice Ohlson
6	Council	Roberto Franceschini	Cristina Botta	Conor Fitzpatrick	Alice Ohlson
7	58/R-007	Valerio Bertone	Andreas Salzburger	Paras Naik	Jason Kamin
8	4/S-030	Florian Goertz Florian Staub	Chris Young	Paras Naik	Jason Kamin

+ Simone Alioli

Backup room 4/S-020 (8 people, can add chairs from S-030)

Discussion groups: map of room



ROOM		
60-2-023	1	2 nd floor
60-5-012	2	5 th floor
ROOM B 61/1-007	3	1 st floor
ROOM C 61/1-009	4	1 st floor
ROOM D 61/1-017	5	1 st floor
Council Chamber 503/1-001	6	1 st floor
58-R-007	7	Ground floor
4-S-030	8	Basement
4-S-020	9	Basement

Few practicalities

- coffee breaks in the morning outside the lecture theatre
- lunch: CERN restaurant R1 or R2, or kiosks with sandwiches etc.
- dinner: in restaurant R1 or outside (tram to Meyrin/Geneva/Saint Genis), indian restaurant outside entrance A (walking distance)

You are privileged to have many world-class experts given the lectures and wonderful discussion leaders. Ratio of students admitted to students applying this year was 1:3. **Make the best out of it!**

- **laptops, tables, phones are not allowed during the lectures**
- there is time outside the lectures and discussion sessions to keep up with email etc.
- but also try to use the school as an opportunity to get to know new colleagues

Social activities

- **welcome cocktail** today in CERN restaurant 1 at 19.00 (finger-food and drinks will be provided)
- **BBQ** on 27th at 19.00 at the corner of the Meyrin site near entrance A, behind barracks buildings (moved if bad weather). Done thanks to the help to organizers/discussion leaders. **Help them out!**
- **excursion** on Sun28th: bus to Chamonix (French Alps). Limited places available. Departure from CERN hostel (bld 39) at 9.00 sharp, departure from Chamonix at 18.00 sharp. Separate information sheet will be provided
- **farewell dinner** in Geneva on 2nd. Let Patricia know if you can not make it. No guests allowed.
- **visits to ATLAS and CMS** on Friday afternoon 3rd. Space is limited, give priority to those for whom this is the first opportunity

Remember to fill out the doodle!

Enjoy the school!