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# ASP2020 Integrated Program (v1.0)

## Constraints

- Dates of the different parts of the program:
  - ASP2020: 6-24 july
  - ACP2020: 9-15 july
  - Forum: 15 july
  - Teachers Workshop: 13-17 july
  - Learners Workshop: 20-24 july
  - Excursions: 11 & 18 july
- Long lunch breaks
- Not too late lectures
- Most of the discussions / las sessions in the afternoon
- IT lectures more uniformly distributed
- Overlap between ASP & ACP

# ASP2020 Week 1

Time	Mon. 6	Tue. 7	Wed. 8	Thu. 9	Fri. 10	Sat. 11	Sun. 12
8:30-9:15	Opening (8:30-9:00)	Students Projctcs	Linux (1)	Linux (2)	Linux (3)	Exc. #1	FREE
9:15-10:00	HEP Overview (9:00-10:00)	SM (3)	Nuclear TH (3) Heavy Ions	MC Gen. (1)	Cosmo (1)	Exc. #1	FREE
10:00-10:45	QFT Intro (1)	SM (4)	Nuclear TH (4) Heavy Ions	MC Gen. (2)	Cosmo (2)	Exc. #1	FREE
10:45-11:00	Morning Break						
11:00-11:45	QFT Intro (2)	Nuclear TH (1)	BSM (1)	CONF [Pheno]	CONF [Pheno]	Exc. #1	FREE
11:45-12:30	QFT Intro (3)	Nuclear TH (2)	BSM (2)	CONF [Pheno]	CONF [Pheno]	Exc. #1	FREE
12:30-14:30	Lunch						
14:30-15:15	QFT Intro (4)	SM (5)	Astropart. (1)	MC Gen. Tutorial (1) [Collider]	MC Gen. Tutorial (3) [DM]	Exc. #1	FREE
15:15-16:00	SM (1)	SM (6)	Astropart. (2)	MC Gen. Tutorial (2) [Collider]	MC Gen. Tutorial (4) [DM]	Exc. #1	FREE
16:00-16:45	SM (2)	DS: QFT Quizz	DS: SM Quizz	DS: Nuclear Quizz	DS: Astro Quizz	Exc. #1	FREE
16:45-17:00	Afternoon Break						
17:00-17:45	DS: QFT Intro	DS: SM	DS: Nuclear	DS: Astro	DS: BSM	Exc. #1	FREE

# ASP2020 Week 2

Time	Mon. 13	Tue. 14	Wed. 15	Thu. 16	Fri. 17	Sat. 18	Sun. 19
8:30-9:15	Particle Matter Interactions (1)	Detectors (2)	Statistics (3)	LHC SM Meas. (1)	BSM Searches (1)	Exc. #2	FREE
9:15-10:00	PMI (2)	Statistics (1)	ROOT (1)	LHC SM Meas. (1)	BSM Searches (2)	Exc. #2	FREE
10:00-10:45	PMI(3)	Statistics (2)	ROOT (2)	LHC SM Meas. (2)	Neutrino // BPhys Expts (1)	Exc. #2	FREE
10:45-11:00	Morning Break						
11:00-11:45	CONF [Detectors]	CONF [Expt Ana.]	CONF [Expt Ana.]	Nuclear Expts (1)	Neutrino // BPhys Expts (2)	Exc. #2	FREE
11:45-12:30	CONF [Detectors]	CONF [Expt Ana.]	CONF [Expt Ana.]	Nuclear Expts (2)	Heavy Ion Expts	Exc. #2	FREE
12:30-14:30	Lunch						
14:30-15:15	Detectors (1)	Geant4 Tutorial (1)	FORUM	ROOT Tutorial (1)	// Detectors HandsOn (1)	Exc. #2	FREE
15:15-16:00	Geant4 (1)	Geant4 Tutorial (2)	FORUM	ROOT Tutorial (2)	// Detectors HandsOn (2)	Exc. #2	FREE
16:00-16:45	Geant4 (2)	Geant4 Tutorial (3)	FORUM	DS: Nuclear	// Detectors HandsOn (3)	Exc. #2	FREE
16:45-17:00	Afternoon Break						
17:00-17:45	DS: PMI	DS: Detectors	FORUM	DS: LHC SM	DS: BSM	Exc. #2	FREE

# ASP2020 Week 3

Time	Mon. 20	Tue. 21	Wed. 22	Thu. 23	Fri. 24	Sat. 25	Sun. 26
8:30-9:15	Gravitational waves (1)	Accelerators (2)	HTC (2)	Fluka // Nano (1)	Proton Accel. (1)	Departure	Departure
9:15-10:00	Gravitational Waves (2)	Synchrotron Rad. (1)	Workflows & Distr. Env. (1)	Fluka // Nano (2)	Radio-Oncology (1)	Departure	Departure
10:00-10:45	Radiation Meas. & Dos. (1)	Beam Diagnostics (1)	High bright. electron & photon beams	Fluka // Nano (3)	Radio-Oncology (2)	Departure	Departure
10:45-11:00	Morning Break						
11:00-11:45	Radiation Meas. & Dos. (2)	Beam Diagnostics (2)	Inv. Compton Scatt. Sources of adv. $\gamma$ beams	Accel. For Nuclear Phys. (1)	Students Projects (1)	Departure	Departure
11:45-12:30	Accelerators (1)	Condor Exs (2)	Adv. Sources of 3iary beams of $\pi$ , $\mu$ , $\nu$	Neutron Sources (1)	Students Projects (2)	Departure	Departure
12:30-14:30	Lunch						
14:30-15:15	GRID Registr. /Intro (1)	Beam Diag. Expt (1)	Clouds & Containers	Solar Energy (1)	Students Projects (3)	Departure	Departure
15:15-16:00	HTC (1)	Beam Diag. Expt (2)	DagMan Exs (1)	Accel. For Nuclear E. (1)	Students Projects (4)	Departure	Departure
16:00-16:45	Condor Exs (1)	Beam Dyn. (1)	DagMan Exs (2)	DS: Nuclear	Students Projects (5)	Departure	Departure
16:45-17:00	Afternoon Break						
17:00-17:45	DS: Radiation	DS: Beam Diag.	DS: HPC Exs	DS: Energy	Closing	Departure	Departure

## ASP-ACP Overlap

- The overlap is 7h30 (more than a working day)
  - + the forum
  - + the posters in the dining hall for several days
- Need to adjust the timing of some ACP sessions to match the advancement of the ASP program
  - These talks need to be pedagogical
  - Review talks on
    - Higgs phenomenology
    - Higgs properties measurements
    - Antares / KM3Net
    - Electron-Ion Collider,...

## Next Steps

- Adjust/correct v1.0 to take into account feedback from the IOC and the LOC
- Prepare a detail list of the lectures
  - Description
  - Goals
  - Recommendations to the lecturer
  - ...
  - List of possible lecturers