

Lectures:

Maarten Boonekamp (IRFU, Saclay, France): The Standard Model: the interplay between theory and experiment (4h)

Jan Stark (LPSC, Grenoble, France): Beyond the Standard Model (2h)

Jan Stark (LPSC, Grenoble, France): Monte Carlo techniques in particle physics (2h)

Daniel Froidevaux (CERN, Geneva, Switzerland): Detection techniques and the performance of the ATLAS detector (6h)

Sandrine Laplace (LAPP, Annecy, France) and Marie Legendre (IRFU, Saclay, France): Introduction to statistics (3h)

Sandrine Laplace (LAPP, Annecy, France) and Marie Legendre (IRFU, Saclay, France): ATLAS analysis (9h)

Pierre Darriulat (Vietnam Atomic Energy Commission, Hanoi, Vietnam): Relationship between particle physics, astrophysics and cosmology (2h)

Monday 4<sup>th</sup> January

08h00 – 08h30: school opening (all)  
08h30 – 09h30: detection techniques (DF)  
09h30 – 09h45: coffee break  
09h45 – 10h45: detection techniques (DF)  
10h45 – 11h00: coffee break  
11h00 – 12h00: Standard Model (MB)

12h00 – 14h00: lunch break

14h00 – 15h00: Statistics (SL-ML)  
15h00 – 15h15: coffee break  
15h15 – 16h15: ROOT analysis (SL-ML)  
16h15 – 16h30: coffee break  
16h30 – 17h30: ROOT analysis (SL-ML)

Tuesday 5<sup>th</sup> January

08h30 – 09h30: Standard Model (MB)  
09h30 – 09h45: coffee break  
09h45 – 10h45: Standard Model (MB)  
10h45 – 11h00: coffee break  
11h00 – 12h00: Monte Carlo techniques (JS)

12h00 – 14h00: lunch break

14h00 – 15h00: Monte Carlo techniques (JS)  
15h00 – 15h15: coffee break  
15h15 – 16h15: ROOT analysis (SL-ML)  
16h15 – 16h30: coffee break  
16h30 – 17h30: ROOT analysis (SL-ML)

Wednesday 6<sup>th</sup> January

08h30 – 09h30: Standard Model (MB)  
09h30 – 09h45: coffee break  
09h45 – 10h45: detection techniques (DF)  
10h45 – 11h00: coffee break  
11h00 – 12h00: detection techniques (DF)

12h00 – 14h00: lunch break

14h00 – 15h00: Statistics (SL-ML)  
15h00 – 15h15: coffee break  
15h15 – 16h15: ROOT analysis (SL-ML)  
16h15 – 16h30: coffee break  
16h30 – 17h30: ROOT analysis (SL-ML)

Thursday 7<sup>th</sup> January

08h30 – 09h30: questionnaire (all)  
09h30 – 09h45: coffee break  
09h45 – 10h45: Statistics (SL-ML)  
10h45 – 11h00: coffee break  
11h00 – 12h00: detection techniques (DF)

12h00 – 14h00: lunch break

Students interview

Friday 8<sup>th</sup> January

08h30 – 09h30: Beyond the Standard Model (JS)  
09h30 – 09h45: coffee break  
09h45 – 10h45: Beyond the Standard Model (JS)  
10h45 – 11h00: coffee break  
11h00 – 12h00: detection techniques (DF)

12h00 – 14h00: lunch break

14h00 – 15h00: ROOT analysis (SL-ML)  
15h00 – 15h15: coffee break  
15h15 – 16h15: ROOT analysis (SL-ML)  
16h15 – 16h30: coffee break  
16h30 – 17h30: ROOT analysis (SL-ML)

Selection committee meeting: 18h00 - 20h00

Saturday 9<sup>th</sup> January

08h30 – 09h30: closing lecture (PD)  
09h30 – 09h45: coffee break  
09h45 – 10h45: closing lecture (PD)  
10h45 – 11h00: concluding remarks (all)

12h00: end of school