



Benasque, 13/09/2017

I certify that PABLO MARTÍNEZ - AGULLÓ has participated in the school **TAE 2018 - International Summer Workshop on High Energy Physics** held in the 'CENTRO DE CIENCIAS DE BENASQUE PEDRO PASCUAL' in Benasque, Huesca (Spain) from the 2nd until the 15th of September 2018.

Please note that the course included 47 hours of lectures, 14 hours of tutorials and 4 hours of student seminars. This school is intended for Master/Doctoral students. It was organized by M. Asorey (U. Zaragoza), J. M. Carmona (U. Zaragoza), T. T. Dafni (U. Zaragoza), I. García-Irastorza (U. Zaragoza), G. Luzón (U. Zaragoza), S. Peñaranda (U. Zaragoza)

Course content

Monday, 3 September 2017

- Quantum Field Theory
- Statistics
- Tutorial: Quantum field theory
- Tutorial: Statistics

Tuesday, 4 September 2017

- Quantum Field Theory
- EW theory and Standard Model
- Statistics
- Tutorial: EW theory and Standard Model
- Tutorial: Statistics

Wednesday, 5 September 2017

- Flavor physics
- Statistics
- Quantum Field Theory
- EW theory and Standard Model
- Tutorial: EW theory and Standard Model
- Tutorial: Quantum Field Theory

Thursday, 6 September 2017

- Neutrino physics
- Machine learning
- Flavor physics
- Tutorial: Flavor physics
- Student talks

Friday, 7 September 2017

- Neutrino physics
- Flavour physics
- Cosmology
- Machine learning
- Tutorial: Neutrino physics

Saturday, 8 September 2017

- Axions
- Cosmology

Monday, 10 September 2017

- Beyond the Standard Model
- Dark matter searches
- QCD and jets
- Tutorial: Beyond the Standard Model
- Tutorial: QCD and jets

Tuesday, 11 September 2017

- QCD and jets
- Dark matter searches
- Beyond the Standard Model
- Tutorial: Dark matter searches
- Student talks

Wednesday, 12 September 2017

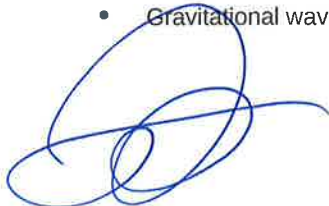
- Dark matter searches
- LHC physics
- Lattice gauge theory
- Tutorial: Beyond the Standard Model
- Tutorial: Lattice gauge theory

Thursday, 13 September 2017

- LHC physics
- Antimatter
- Lattice gauge theory
- Tutorial: Lattice gauge theory
- Student talks

Friday, 14 September 2017

- LHC physics
- Heavy ions
- Antimatter
- Gravitational waves



Manuel Asorey
Scientific Organizer