

Session Program

22 February 2027 to 14 July 2027

16th Course on Physics at the LHC 2027

Final evaluation

Seminar Room ("sala Seminarios") (LIP)

Monday 14 June

09:30

Final evaluation

Session | **Location:** Seminar Room ("sala Seminarios") (LIP)

09:30–10:00

Search for exotic Higgs boson decays $H \rightarrow AA$ with $A \rightarrow \gamma\gamma$ in events with a semi-merged topology in proton-proton collisions at 13 TeV

Speaker

Ines Moreira

10:00–10:30

Constraints on the Higgs boson self-coupling from the combination of single and double Higgs boson production in proton-proton collisions at 13 TeV (canceled)

Speaker

Catarina Cristina

14:00

Wednesday 14 July

14:00

Final evaluation

Session | **Location:** Seminar Room ("sala Seminarios") (LIP)

14:00–14:30

Precision measurement of the W boson decay branching fractions in proton-proton collisions at 13 TeV

Speaker

José Rocha

14:30–15:00

Observation of four top quark production in proton-proton collisions at 13 TeV

Speaker

Mariana Batista Mendes

15:00–15:30

Simultaneous probe of the charm and bottom quark Yukawa couplings using ttH events

Speaker

Marina Kholodenko

15:30–16:00

General search for supersymmetric particles in scenarios with compressed mass spectra using proton-proton collisions at 13 TeV

Speaker

Malaika Ali

16:00–16:30

Measurement of the W boson mass

Speaker

João Miguel Costa Santos

17:00