

STRONG2020 HaSP School



Tuesday 05 September 2023 - Thursday 14 September 2023

Programa Científico

- **Effective Field Theories of QCD** (Introduction to non relativistic EFTs (HQET, NRQCD, pNRQCD) and chiral effective field theory. Quark-gluon plasma, heavy-ion collisions, thermal field theory, effective field theories at finite temperature)
- **Analysis tools for hadron physics** (Cross sections, Dalitz plot, helicity formalisms, S-Matrix constraints, reaction amplitude parametrization, hands-on with simulated data)
- **Hadron physics experiments** (Experimental Methods in Hadron Spectroscopy. Light Mesons with open and hidden strangeness. Mesons spin and parity determination procedure. Baryon spectroscopy in the light sector. Photo and electro-production of mesons on nucleon targets. Polarization observables and complete reactions. Experimental and statistical methods for data analysis. Applications to data: polarization observable and cross section extraction)

Confirmed speakers:

- Antonio Vairo (T.U. Munich)
- Jacopo Ghiglieri (CNRS, IN2P3)
- Vincent Mathieu (U. Barcelona)
- Miguel Albaladejo (IFIC Valencia)
- Annalisa D'Angelo (U. Roma and INFN)
- Alessandra Filippi (INFN Torino)
- Derek Glazier (U. Glasgow)
- Lucilla Lanza (U. Rome Tor Vergata)
- Nickolas Zachariou (U. York)