

ISAPP Summer School on Gravitational Waves 2021



Monday, June 7, 2021 - Thursday, June 17, 2021

Scientific Program

TOPICS

GW theory and sources
Interferometric GW detectors (present and future)
LIGO/Virgo/KAGRA physics and technology
Data analysis techniques
LIGO/Virgo results and outlook (cosmology, astrophysics, tests of General Relativity)
Multimessenger astrophysics
LISA
Pulsar Timing Array
Future detectors (aLIGO+, AdV+, Einstein Telescope)
Future science objectives and data analysis issues and challenges

NOT ONLY THEORY

Q/A sessions
Group projects

Virtual Visit to EGO/Virgo

Virtual Visit to the detector (instrumentation, control room)
conferences

Evening conferences (TBC)

Communication and outreach
Managing a big scientific project
Challenges and issues in scientific open data