

# SCHEDULE

All the lectures will be given in room 6.2.33

## MONDAY 5/9

**11h-12h**      **Lecture 1:** Variational principles of mechanics, calculus of variations.

## TUESDAY 6/9

**11h-12h**      **Lecture 2:** Hamiltonian mechanics, motivated intuitively.

## WEDNESDAY 7/9

**11h-12h**      **Lecture 3:** An Archimedean spirit in dynamics: Archimedes—Hamilton—Poincaré—Einstein—Gromov.

## THURSDAY 8/9

**11h-12h**      **Lecture 4:** Maximum principle of optimal control and geometrical optics.

## FRIDAY 9/9

**11h-12h**      **Lecture 5:** The dynamics—statics equivalence and some of its consequences