Numerical modelling of flow processes in mountain areas

General Program (3 full days 9-17h)

Day 1: Hydrological and hydraulic modelling

- What is Iber?
- Theory and applications: hydrodynamics
- Hydrodynamics. Case studies
- Theory and applications: hydrological processes
- Hydrological processes. Case studies
- UNIBE & Flumen Institute experiences

Day 2: Morphodynamics and sediment transport

- Theory and applications: sediment transport
- Suspended load. Case studies
- Bedload. Case studies
- UNIBE & Flumen Institute experiences

Day 3: Wood transport and non-Newtonian shallow flows

- Theory and applications: wood transport
- Wood transport. Case studies
- UNIBE experiences
- Theory and applications: non-Newtonian flows
- Non-Newtonian flows. Case studies
- Flumen Institute experiences