

# **Summer school: Les Houches on Dark Universe**

**Monday, July 7, 2025 - Friday, August 1, 2025**

**Ecole de Physique des Houches**

## **Scientific Program**

**The standard model of cosmology: a critique of its status**

**Physics of the dark ages**

**Advanced CMB physics**

**Dark energy-vs-high energy physics**

**Standard model tensions**

**Dark matter alternatives**

**Large scale structures of the universe: physics, phenomenology, statistics**

**Numerical cosmology**

**Gravitational Waves for Cosmology**