



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Current and future challenges in gravitational-wave astronomy

2526-113R020

---

#### Title

Current and future challenges in gravitational-wave astronomy

#### Teacher

Dott. Caroline Owen

#### Language

English

#### Short description

This course will cover various topics in gravitational-wave physics and astronomy, including post-Newtonian formalism, Fisher information analysis, the stationary phase approximation, Bayesian parameter estimation, and more.

#### Target audience

PhD students interested in gravitational-wave physics and astronomy.

**Maximum number of participants**

N/A

**Assessment method**

TBD.

**CFU / Hours**

2 CFU / 16 hours

**Teaching period and mode**

Spring 2026, in person

**Sustainable Development Goals**

INDUSTRY, INNOVATION AND INFRASTRUCTURE

---