Welcome to the Royal Observatory Edinburgh

Astrophysics Honours Degree

• Astrophysics Degree Programme Coordinator:
  Prof. Andy Taylor (ant@roe.ac.uk)

• Astrophysics Teaching Office:
  Steph Blakey (Steph.Blakey@ed.ac.uk)
ROE hosts 3 Institutes

Institute for Astronomy (IfA)
- 21 members of staff.
- 31 Postdoctoral Research Fellows.
- 42 PhD Students.
- 16 Staff - Wide-Field Astronomy Unit.
- World-leading Research: Cosmology, High-Redshift and AGN Studies, Galactic Studies and Planet Formation.

UK Astronomical Technology Centre (ATC)
- Major UK Science & Technology Funding Council facility.
- Design & build state-of-the-art Astronomical Instruments JCMT, UKIRT, SCUBA, VISTA, NASA’s JWST, ESO’s ELTs,….
- Higgs Centre for Innovation. Joint venture for UKATC & IfA.
- WFAU, Euclid UK Science Data Centre, Industry Incubators.

ROE Visitor Centre:
Undergrad Teaching at ROE

**Junior Honours**
- Observational Astronomy (Lectures, Lab & Telescope)

**Senior Honours & Integrated Masters**
- Astrophysics
- Computational Astrophysics
- Stellar Evolution
- Galaxies
- Cosmology
- Advanced Cosmology
- General Relativity
- Radiation & Matter
- High Energy Astrophysics

- Senior Honours Projects
- Group Projects - Telescope Project
- MPhys Projects

- Summer Projects
Onsite Facilities

- **Undergraduate Computing Laboratory** - Sadegh Khochfar.
- **ROE Library** - Librarian Karen Moran.
  - Undergrad’s encouraged use.
  - Crawford Collection.
- **ROE Canteen** – Breakfast, Coffee, Lunch.
- **Science Talks and Seminars:**
  - **ROE Seminars** – Wednesday 3.30pm in Lecture Theatre.
  - **Extra Seminars** - in Lecture Theatre.
  - **Coffee Talks** – Regular 20min talks in Canteen at 11am.
  - **Stobie Talks** - Fridays at 11am in Stobie Room.
- Will arrange meeting with Astro Reps.
- Reminder - students must vacate site by 6pm.
• **Location:** 1894 Building, Main Library & Annex

• **All students have access to ROE Library & borrowing (not Reference books):** self-issue books by filling in slip on desk, or asking Karen (R11).

• **Can search ROE Library Archive via EASE:** e-Journals and check account.

• **Wifi & Power available in Library:** Students encouraged to use as Quiet Space.

• **Viewing Crawford Collection:** Ask Karen.

• **Library Advisory Group** - meets twice a year, Astro Reps.
Observational Astronomy

Ross McLure, Sadegh Khochfar, Beth Biller
Observational Astronomy

Structure:

- Observational Astronomy is a 20-credit course
- 50% final exam, 50% lab work
- One lecture per week, runs all year

Lectures designed to provide essential background information on observational astronomy

(FRIDAYS at 11.10 am in JCMB 6206)
Observational Astronomy

Structure:

- Lab work happens in undergraduate lab, here at the IfA
- Consists of three groups of experiments

- computing exercises
- spectroscopy
- VLT data analysis
- written lab report
- written lab report
- ipython notebook
Observational Astronomy

- 20 credit course
- 50% lectures+exam
- 50% coursework (lab reports + ipython)

First lecture: tomorrow at 11.10 am, JCMB 6206