



Gamma-ray Joint Center of Expertise

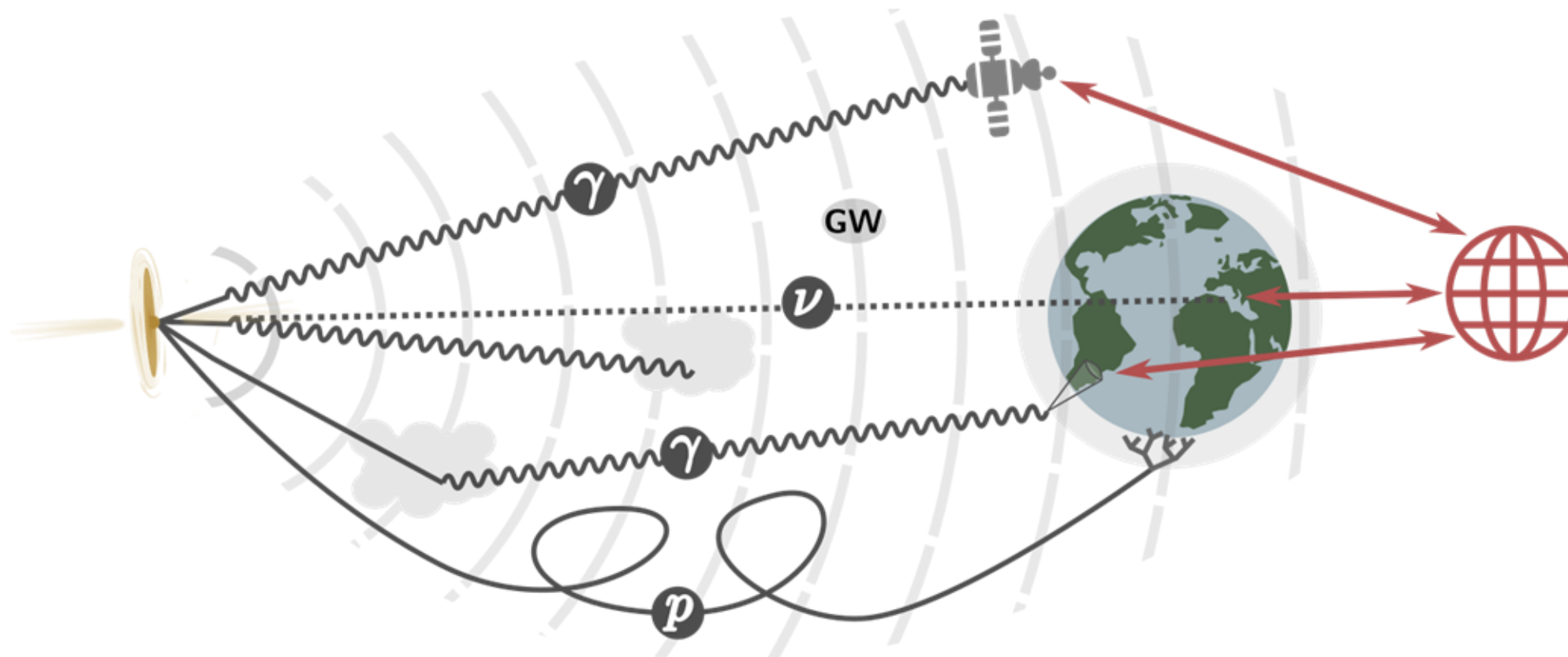
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ACME

The Astrophysics Centre for Multi-messenger studies in Europe

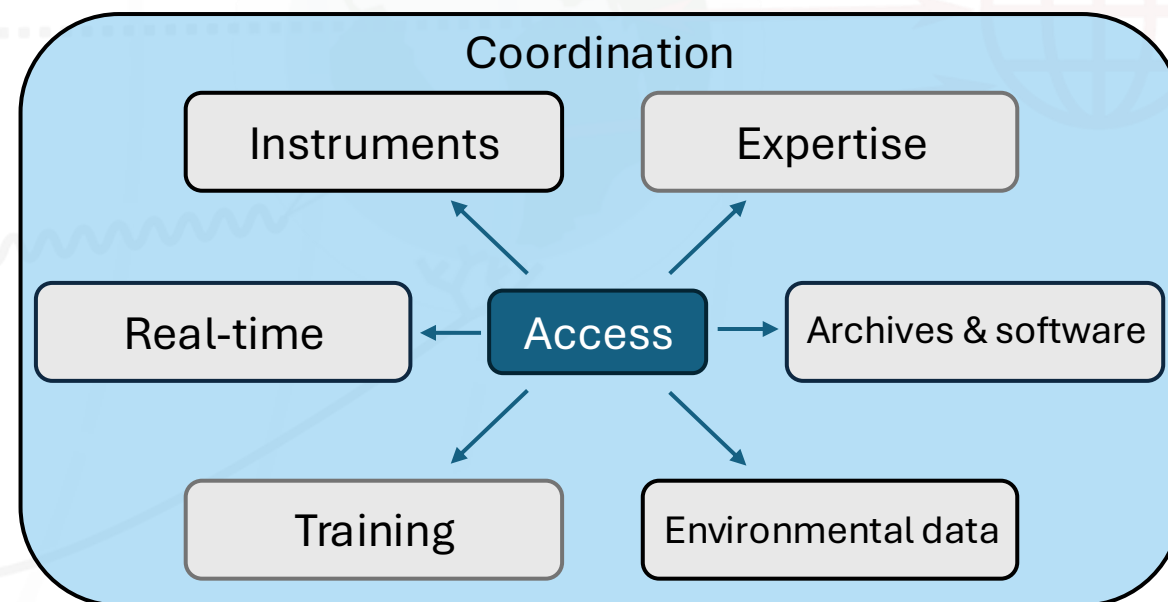


ACME

The Astrophysics Centre for Multi-messenger studies in Europe

A pathfinder to broaden, improve and align access to the respective research infrastructure services and data, and assess and evaluate new models for better coordination and provision of at-scale services.

- Following recommendations by the [APPEC](#) and [ASTRONET](#) European roadmaps
- <https://www.acme-astro.eu/>
- A global network of 40+ partners across 15 countries, connecting 30+ research infrastructures
- Project duration: Sep 2024 – Aug 2028



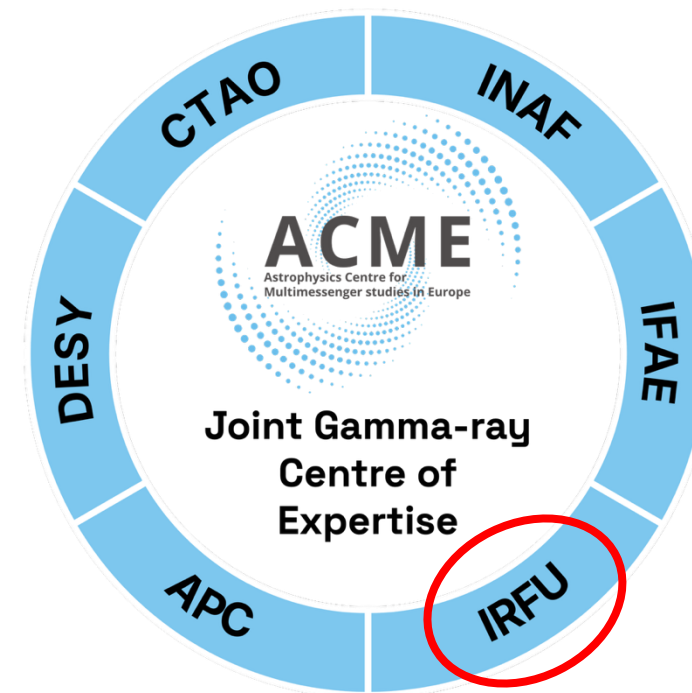
ACME

Objectives of ACME:

- Providing opportunities for researchers to access scientific expertise on **MM astrophysics**
- Enlarging the **user community** and fostering **collaboration**
- Maximising the science return of **MM observations**
- Providing:
 - access to MM data analysis methods and tools
 - end-to-end expertise for multi-wavelength follow-up of transient signals (from observation proposals, observational strategy, to the data processing)
 - theoretical expert support to interpret multi-messenger data
 - Supporting organization of [schools and workshops](#)

ACME activities – a part of

- **Transnational (TNA)** and **virtual (VA)** access to the world-class Research Infrastructure and Institutes
- Within it, 6 Joint Centres of Expertise (JCEs) are established to promote collaboration and support [ACME activities](#) and its Users offering expertise on the infrastructures, observations, data analysis and interpretation of data in the MM context
- Full-spectrum science: from radio to gamma rays, plus gravitational waves, neutrinos, and cosmic rays
- **CTAO is coordinating the Gamma-ray Joint Centre of Expertise**



Gamma-ray JCE

- Offering **TNA** and expertise that we plan to utilise through **VA** activities: **hands-on** sessions dedicated to the tools developed at the nodes and expertise covered by their ACME members.
- All material is available and will be kept [online](#)
- We are working on collection of all information related to the **expertise** and **resources available** at our nodes and using them to boost the activity of the gamma-ray JCE.



CTAO

Gamma rays, TNA



INAF

Gamma rays, Optical / Near infrared,
Visiting institute (TNA), X-rays



DESY

Gamma rays



IFAE

Gamma rays, Visiting institute (TNA)



IRFU

Gamma rays, Visiting institute (TNA)



APC

Gamma rays, Neutrinos & Cosmic rays,
Visiting institute (TNA)

Gamma-ray JCE

Transnational access – funding research visits to European institutes that provide direct training and expert guidance in multi-messenger astronomy

- Three TNA calls concluded already
- 94 visits funded in first two calls (results of the third arriving soon)
- Get ready for the next TNA call in Fall 2026
- Rules (some):
 - Eligible applicants: PhDs, postdocs, researchers (affiliation required)
 - Visits to institutions located in a country other than the country of the applicant's home institution
 - Funding up to 2 weeks stays

Check the full list of nodes and choose your next collaborator!

Gamma-ray JCE

- **Virtual Access** – hands-on sessions and Helpdesk

- Sign up for [hands-on sessions](#) focused on different topics and tools used in gamma-ray astronomy (and others!)
- Materials available [online](#)
- Feel free to reach out with **ideas** or **wishes** for the next hands-on session

June 2026

Wed 3 Jun 14:00 - 16:30 [Astro-COLIBRI: Overview and Key Features](#) 🚩

Thu 4 Jun 14:00 - 17:00 [Design an IACT for VHE gamma-rays](#)

Fri 12 Jun 10:00 - 16:00 [Kilonova: Theory and Modelling](#) 🚩

Tue 16 Jun 14:00 - 16:00 [From Counts to Physics: Simulating and Fitting Gamma-ray Data](#) 🚩

Fri 19 Jun 9:00 - 13:00 [Advanced Bayesian Inference with Bilby](#) 🚩

July 2026

Wed 1 Jul 9:00 - 13:00 [Preparation of observing scripts for LBT](#) 🚩

Thu 9 Jul 10:00 - 13:00 [Design an IACT for VHE gamma-rays](#) 🚩

ACME JCE - Helpdesk

- **Virtual Access** – hands-on sessions and Helpdesk

Contact us through the **ACME Helpdesk**

- **Free to register**
- Simple registration
- Private tickets
- Ask the experts directly and receive timely response and support

ACME JCE - Helpdesk



Project ▾ Telescopes & Detectors ▾ Centres of Expertise ▾ Data & Software ▾ Realtime ▾ Training ▾ Results ▾ 🔍

Ongoing calls 📄

Hands-on sessions 🎧

Ask an expert 💬



1. Access the Helpdesk platform
2. Create an account
3. Open a ticket

ACME JCE - Helpdesk



- Dashboard
- Overviews
- Knowledge Base
- Related to data policy of CTAO
- Difference between significance...
- Inbound Call
- Inbound Call**

New Ticket

Received Call | Outbound Call | Send Email

TITLE *

CUSTOMER *
Enter Person or Organization/Company

TEXT
[select attachment...](#)

GROUP *
Gamma-rays
CTAO

OWNER
-

PRIORITY *
2 normal

TAGS

Select the appropriate group/subgroup



ACME JCE - Feedback

We kindly ask you to **fill in the survey** using the link below, we would greatly appreciate your feedback to help us improve the next sessions:

<https://www.acme-astro.eu/survey-hands-on-sessions-xwj4jm9/>

Subscribe to the ACME Newsletter: <https://www.acme-astro.eu/newsletter/>

We hope you enjoy the hands-on session!

