

EGO ET tasks in the EIB

A. Bozzi (EIB Div 2 - Services and Collaboration Support Chair) and G. Hemming, on behalf of the EGO IT Dept. ET-EIB Aachen Workshop 9-10 March, 2023

EGO develops and supports a number of applications within the EIB, including:

- the ET Members Database (ETMD)
- the ET Documentation System (TDS)
- the ET Wiki
- ET GitLab
- ET Mattermost
- Indico
- the ET Website

EGO also manages:

- on-boarding and off-boarding of Collaboration Members
- authentication and authorisation for all current web services in the ET Collaboration
- the ET mailing-lists

is involved in:

the ET AAI project

and develops and supports:

• the ET Outgassing Database

- ET Members Database (ETMD)
- Work split into different phases:
 - Phase 1 Branch Virgo Members Database (requirements match ~90-95%)
 - Phase 2 Import information supplied in Excel files during RU-submission at Collaboration creation
 - Phase 3 Work with RU Leaders to ensure minimum of information available for launch (email addresses)
 - Phase 4 Roll-out to Members

• Current situation:

- 80 RU
- 205 Institutions represented in Member affiliations
- Institutions located in 22 different countries
- 1386 Members
- ~1K now have EGO Active Directory accounts
- ~1050 members now in the et-all mailing-list

Members affiliated to Institutions in the following countries:

- Australia
- Belgium
- Bulgaria
- Canada
- China
- Czech Republic
- France
- Germany
- Greece
- Hungary
- Italy

- Japan
- Kuwait
- Netherlands
- Poland
- Portugal
- Republic of Korea
- Spain
- Switzerland
- Taiwan
- United Kingdom
- United States



Welcome to the ET Members Database web interface

The ET Members Database (ETMD) provides the up-to-date, definitive picture of the ET Collaboration.

The following sections are available in this web interface:

- ♣ Members A complete list of all of the current Members of the ET Collaboration.
- institutions A complete list of each of the Institutions that make up the Research Units of the Collaboration, along with the list of users associated to each Institution.
- 🛎 Research Units A list of the Research Units that make up the Collaboration; the Institutions that make up each Research Unit; and the Members that constitute the Research Unit.
- 🔽 Activities An overview of each of the Activities of the Collaboration; who is involved and who is leading in which area.
- ▶ Collaboration-level Roles A breakdown and history of the occupants of Roles that exist at the level of the Collaboration, such as the Spokesperson.
- № ET Institution Map A map showing the geographical locations of the Institutions of the ET Collaboration.
- 20 Dashboard An overview of the Activities available in the ETMD. It shows how many people are involved in an Activity and overall FRTE contributions.



★ ETMD

ET Collaboration Members

This section provides information relating to the Members that constitute the ET Collaboration.

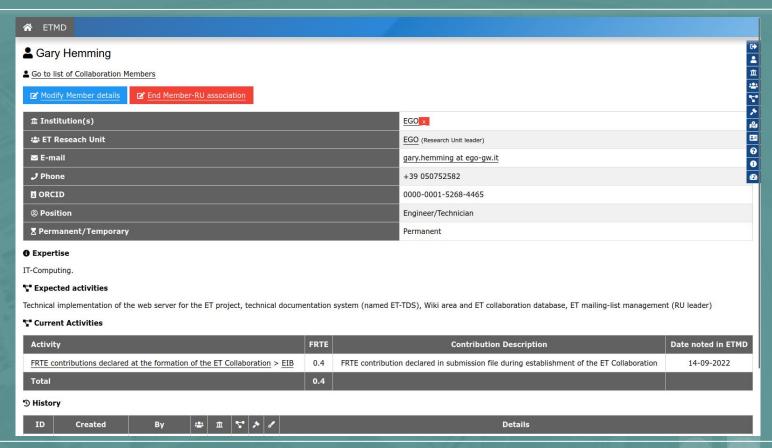
There are currently 1385 Members in the ET Collaboration, representing 205 Institutions in 22 different countries.

+ Add a new Member to the Collaboration

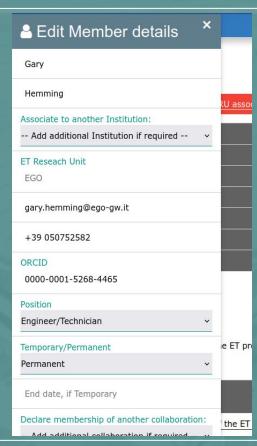
<u> ▲ Name</u>	血 <u>Institution affiliation(s)</u>	🛎 <u>Research Unit</u>	Author E
			<u>List</u>
Aysha Aamer	UBham	<u>UBham</u>	3
Ummi Abbas	<u>INAF-OATo</u>	<u>INAF-OATO</u>	92.
Fausto Acernese	<u>UniSA</u> <u>INFN-NA</u>	<u>Napoli</u>	
Martin Adams	Nikhef	Nikhef	
Francesco Addari	SISSA	SISSA	
Stefania Addessi	<u>DISG-UniRM1</u>	ET-Roma1	
Michalis Agathos (Research Unit leader)	Uni. Cambridge	University of Cambridge	
David Aguilera-Dena	FORTH	<u>FORTH</u>	
Hojae Ahn	<u>KHU</u>	KASI GW R&D Group	
Lorenzo Aiello	Cardiff University	Gravity Exploration Institute	
Simone Albanesi	<u>INFN-TO</u>	INFN Torino	
Angelica Albertini	Astronomical Institute, Czech Academy of Sciences	INFN Torino	
Conrado Albertus Torres	<u>USAL</u> <u>IUFFyM</u>	USAL-Fundamental Physics: Astrophysics and Cosmology	
Wathela Alhassan	CAMK PAN	Polish ET Consortium	
Annalisa Allocca	<u>UniNA</u> <u>INFN-NA</u>	<u>Napoli</u>	











Current Activities

Activity	FRTE	Contribution Description	Date noted in ETMD
$\overline{\text{FRTE}}$ contributions declared at the formation of the ET Collaboration > $\overline{\text{EIB}}$	0.4	FRTE contribution declared in submission file during establishment of the ET Collaboration	14-09-2022
Total	0.4		

'D History

ID	Created	Ву	*	血	7"	*	30	Details
2670	08:39 22/09/2022	Gary Hemming	-	-	-	*	*	Member details updated from: • Expertise altered.
2413	17:46 20/09/2022	Gary Hemming	-	EGO	-	-	-	Institution details updated from: Lastitution Responsible changed from: 0.
1531	11:19 14/09/2022	Gary Hemming	-	-	-	-	-	Profile created using information declared in the RU submission form at time of the formal establishment of the ET Collaboration.

★ ETMD

Research Units

This section provides information relating to the Research Units that form the ET Collaboration.

The following 80 Research Units currently constitute the ET Collaboration.

View a tree view of the Research Units.

Research Unit name	Institutions to which ET Members are affiliated	No. of ET Collaboration Members	No. of Authors in next Author List	Leader	Outreach Responsible
<u>Artemis</u>	血 ARTEMIS 血 UAntwerpen	<u>10</u>		Nelson Christensen	Outreach Responsible
Astroparticule et Cosmologie (APC)	血 <u>APC</u>	<u>11</u>		Ed Porter	
BelGrav UAntwerpen	血 <u>UAntwerpen</u>	8		Nick van Remortel	
<u>BelGrav-Brussels</u>	重 <u>UMONS</u> 重 <u>ULB</u> 重 <u>VUB</u>	<u>17</u>		Alexander Sevrin	
BelGrav-UGent	血 <u>UGent</u>	<u>6</u>		Archisman Ghosh	
BelGrav-Wal	血 <u>UCLouvain</u> 血 <u>ULiège</u>	24		Giacomo Bruno	
<u>BME</u>	血 <u>BME</u> 血 <u>Wigner RCP</u>	<u>12</u>		Róbert Kovács	
<u>BoET</u>	重 DIFA 重 INAF-OAS 重 INFN-Bo	48		Michele Moresco	Michele Moresco
Center for Astrophysics and Gravitation	血 <u>CENTRA</u>	<u>11</u>		Ilidio Lopes	Ilidio Lopes
<u>CIEMAT-FP</u>	並 CIEMAT	<u>5</u>		Nicanor Colino	
CosmoGrav SSM-Napoli	<u>血 KU</u> 血 SSM	<u>12</u>		Daniele Vernieri	Daniele Vernieri

★ ETMD

* Hannover

So to list of Research Units.

The RU Hannover-A contributes to

- the conceptual design, experimental investigation, laboratory demonstration and characterisation of the stabilised, low-noise laser sources for ET-LF and ET-HF
- squeezed light sources for ET and interferometry with non-classical states of light, including laser stabilisation and filter cavities
- the overall design of ET
- the coordination of ET within Germany
- Thermal compensation
- Error signal generation via machine learning for angular and longitudinal degrees of freedom
- coherent quantum noise cancellation schemes and their applications (= QND for future versions of ET)
- active, relative stabilisation of widely separated suspension platforms (SPI)
- development of vacuum compatible inertial sensors

Current Research Unit roles

Research Unit Leader: Harald Lück.

Outreach Responsible: Benjamin Knispel.

Collaboration Members

57 Members of the ET Collaboration are currently associated to this Research Unit:

Name	Author list
Johannes Baeuerlein (AEI)	
Fabio Bergamin (AEI)	
Nina Bode (AEI)	
Phillip Booker (LZH)	
Angela Borchers (AEI)	
Eike Brockmüller (LZH)	

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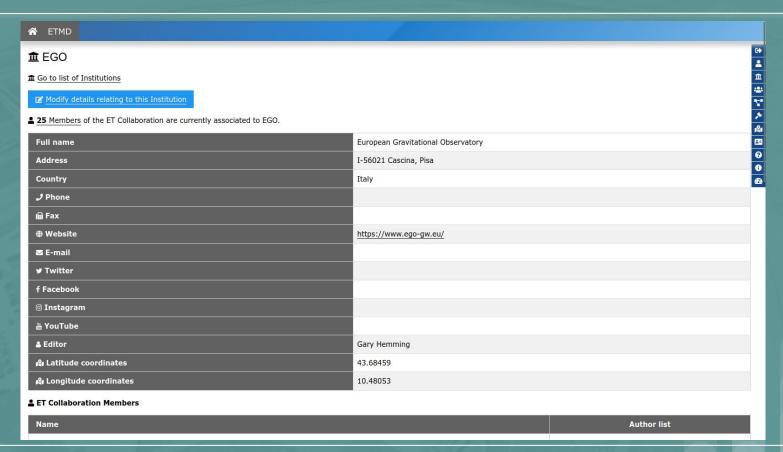
This section provides information relating to the Institutions that are part of the ET Collaboration.

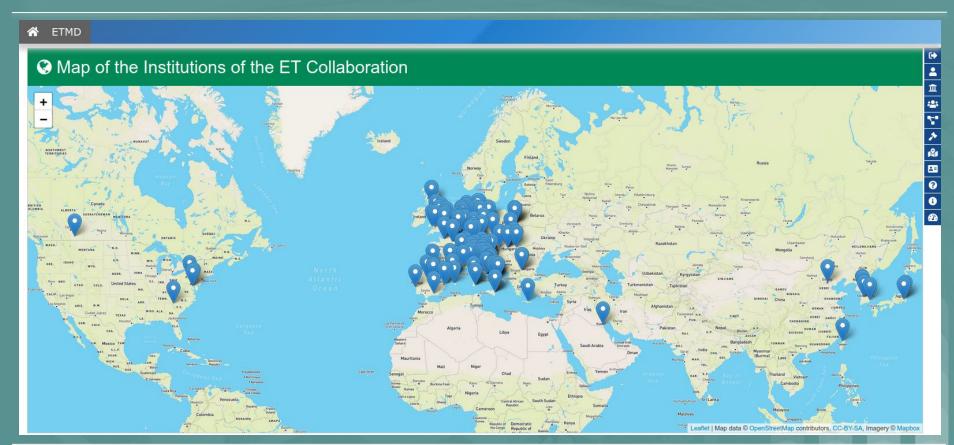
Members of the ET Collaboration are currently affiliated to the following 206 Institutions.

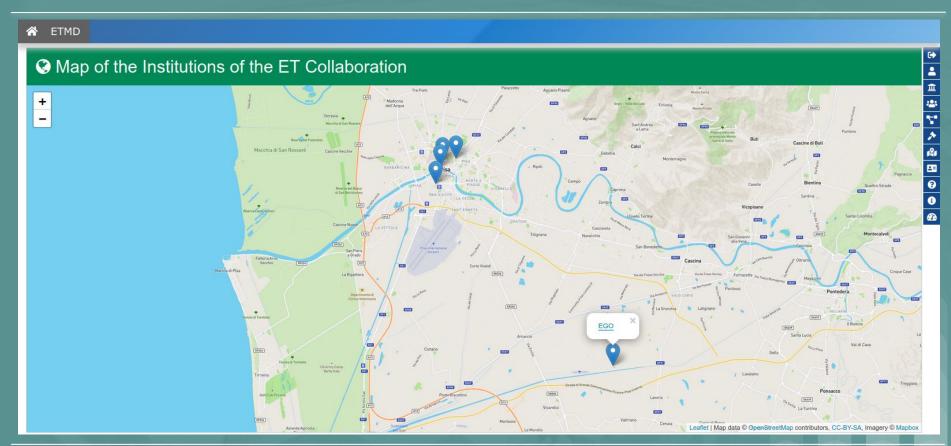
View a tree view of the Institutions.

Name		E		Country	Website
Full	Abbreviated	Can edit Institution details	No. of Collaboration Members		
Beijing Normal University	BNU		1	China	
Nicolaus Copernicus Astronomical Center, Polish Academy of Science	CAMK PAN		<u>11</u>	Poland	
National Center for Nuclear Research	NCBJ		7	Poland	
Astronomical Observatory, University of <u>Warsaw</u>	OAUW		<u>6</u>	Poland	
3. Physikalisches Institut A, RWTH <u>Aachen University</u>	3PhysA-RWTH		4	Germany	https://www.institut3a.physik.rwth-aachen.de/
3. Physikalisches Institut B, RWTH Aachen University	3PhysB-RWTH		<u>10</u>	Germany	https://www.institut3b.physik.rwth-aachen.de/
Max-Planck Institut für Gravitationsphysik	AEI	Harald Lück	<u>30</u>	Germany	https://www.aei.uni-hannover.de/de/
Max Planck Institute for Gravitational Physics — Potsdam	AEI-Potsdam		<u>18</u>	Germany	https://www.aei.mpg.de
Université Paris Cité, CNRS, Astroparticule et Cosmologie	APC		<u>11</u>	France	https://apc.u-paris.fr
Anton Pannekoek Institute for	API - Uni. Amsterdam		18	Netherlands	http://api.uva.nl/

09/03/2023









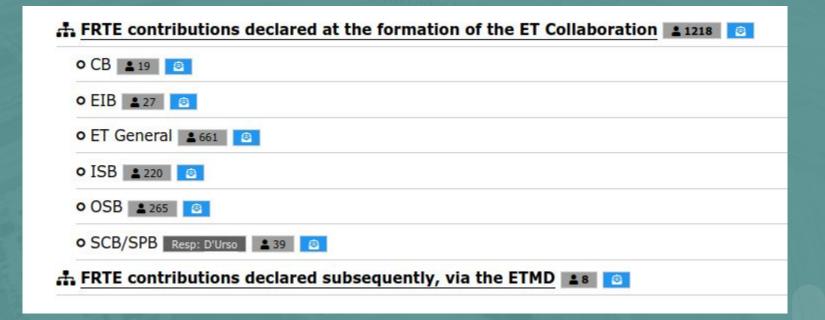
Activities

- Click on an Activity to view its sub-Activities.
- FRTE means Full Research-Time Equivalent. It is the sum of all contributions made by a Member to ET Activities and cannot exceed 1 (i.e. 100 %).
- FRTE are for current contributions to projects that a Member is working on.
- Members can update their contributions in the ETMD at any time (e.g. when a project ends, and a new Activity starts). All historical modification is recorded in the ETMD.
- Members are expected to update their Activity information in the ETMD at least twice a year, at the latest a month prior to the creation of a new ET Author List (e.g. update ETMD information should be updated at the beginning of January and July).

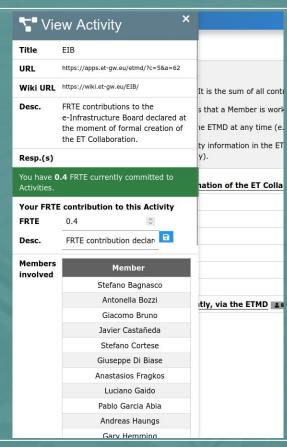
FRTE contributions declared at the formation of the ET Collaboration 1218 0

FRTE contributions declared subsequently, via the ETMD ## | 1











Dashboard

* Activities

♣ 1261 individual Members have supplied activity FRTE contributions.

♣ Top-level activities

Activity	"¶" Sub-activities	≜ Members involved	⊯ FRTE		
				🕒 Avg. contribution / Member	
FRTE contributions declared at the formation of the ET Collaboration	6	1218	292.88	0.24	
FRTE contributions declared subsequently, via the ETMD	4	8	2.2	0.28	
Totals	10	1226	295.08	0.24	

Members

Positions

Position	≗ Entire Collaboration	✓ Current Author List
Professor	72	-
Staff researcher	624	-
Post-doc	192	-1
PhD	285	-
Permanent researcher	24	-
Engineer/Technician	81	n
	78	-
Undergraduate	5	
6 :	24	

▼ Permanent/Temporary

Duration	Totals
Permanent	295
Temporary (end-date not specified)	180 (34)
	910

****** Members

@ Positions

Position	♣ Entire Collaboration	✓ Current Author List
Professor	72	-
Staff researcher	624	-
Post-doc	192	-
PhD	285	-
Permanent researcher	24	-
Engineer/Technician	81	-
	78	-
Undergraduate	5	-
Senior	24	-

Distribution by Institution country

N.B. In relation to the Author List, the table below shows the number of current Members of the Collaboration that are found in the current Author List.

Institution country	Entire Collabora	ation	Author-List		
	All Members	PhD-only	All Members	PhD-only	
Italy	494	56	0	0	
Germany	169	58	0	0	
Spain	151	27	0	0	
United Kingdom	125	30	0	0	
France	121	8	0	0	
Netherlands	93	35	0	0	
Belgium	83	26	0	0	
Hungary	36	9	0	0	
Poland	26	8	0	0	
Republic of Korea	15	4	0	0	
Switzerland	15	7	0	0	
Portugal	12	0	0	0	
United States	10	6	0	0	
Japan	8	0	0	0	
Taiwan	8	4	0	0	
Bulgaria	8	2	0	0	
Greece	6	3	0	0	
Czechia	2	1	0	0	
Australia	1	1	0	0	
Canada	1	0	0	0	
Kuwait	1	0	0	0	
Totals	1385	285	0	0	



♠ ETMD

Privacy Policy

This privacy policy sets out how the European Gravitational Observatory, hereafter EGO, and the Einstein Telescope Collaboration, hereafter ET, uses and protects any information that you provide to EGO and ET when you use this website.

EGO is committed to ensuring that your privacy is protected according to the provisions of the General Data Protection Regulation (GDPR; Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016). Should we ask you to provide certain information by which you can be identified when using this website, then you can be assured that it will only be used in accordance with this privacy statement.

EGO may change this policy from time to time by updating this page. You should check this page every now and again to ensure that you are happy with any changes. This policy is effective as of the 8th of September, 2022.

The information we collect about you

We may collect the following information, all of which is initially supplied by your ET Research Unit (hereafter RU) Leader, when you use our website:

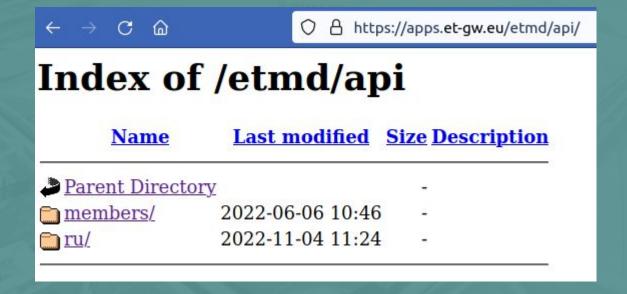
- · a forename;
- · a surname;
- · a list of associations to which you are affiliated;
- an associated RU;
- · an email address:
- · an ORCID number;
- · a telephone number;
- · your position/role within your RU;
- whether you are permanently or temporarily a member of ET and, if temporarily, the date on which that membership ends;
- · memberships of other collaborations;
- · a description of your expertise;
- · a description of your expected activities;
- · and a description of the milestones towards which you will work.

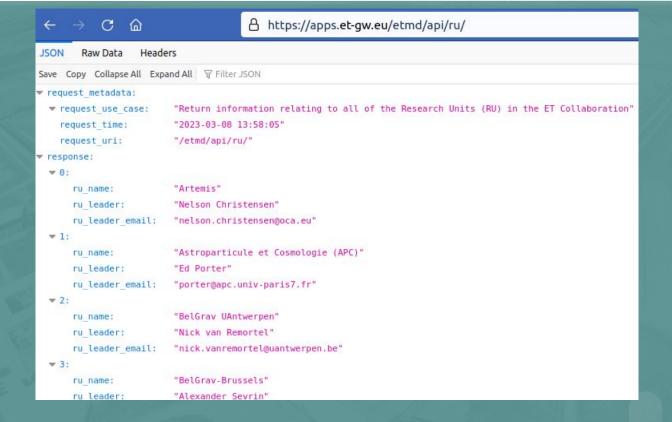
Cookies and other tracking scripts

A cookie is a small file which asks permission to be placed on your computer's hard drive. Once you agree, the file is added and the cookie helps analyse web traffic or lets you know when you visit a particular site. Cookies allow web applications to respond to you as an individual. The web application can tailor its operations to your needs, likes and dislikes by gathering and remembering information about your preferences.

That said, the ET Members Database application, hereafter ETMD, does not use cookies. Following user log-in, information relating to your authentication within the ETMD is managed by PHP sessions that sit on the EGO web server. Once you log-out or close your browser, these sessions cease to exist. These sessions are used only to identify the Member - via a normalised ID - following log-in and to allow the system to understand the authorisation level of the user within the ETMD:



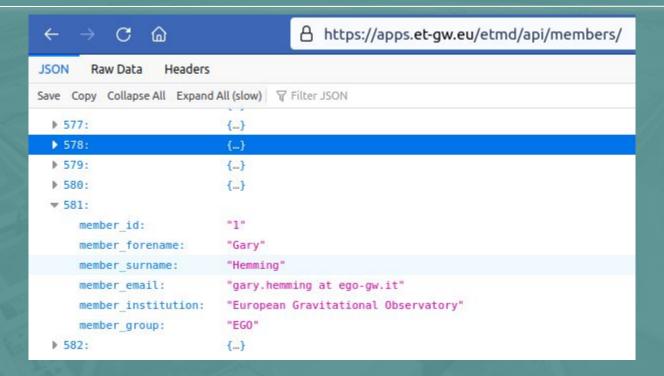




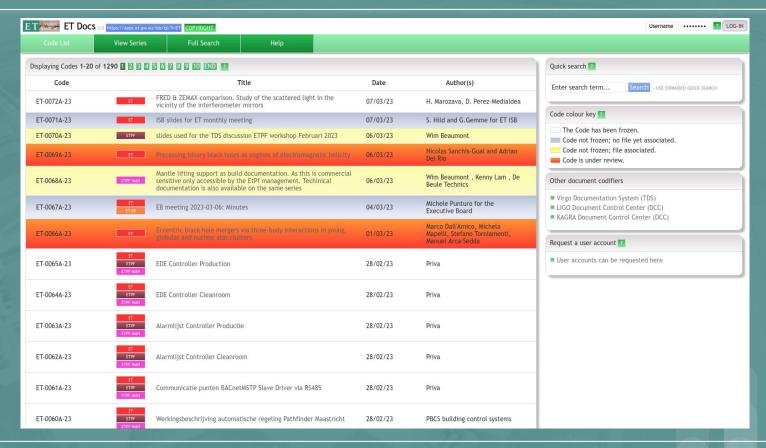


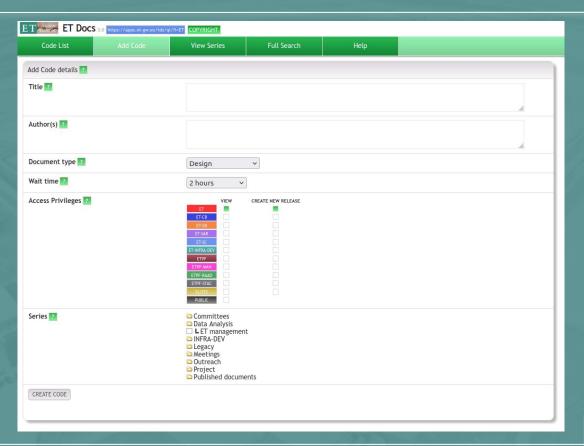




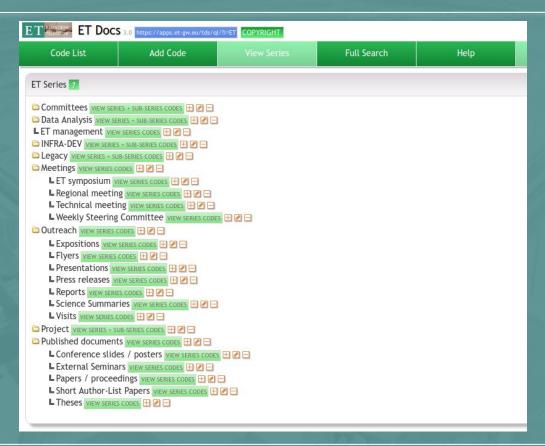








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Attach



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Toolbox

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RSS Feed

Preferences

♣ Groups

Webs

Main

Sandbox Service You are here: ET - Einstein Telescope Wiki Pages > Main Web > WebHome (18 Jan 2023, AdminUser)

Welcome to the ET Wiki pages

In order to access the content of this wiki, you must have access to an **EGO Active Directory** account and be sure that you are in ET Community. If you do not currently have an account, but would like to get one, please follow these instructions.

If in possession of an EGO Active Directory account, please click [LogIn] and then complete the user-authentication process in order to access the topics available to ET community members.

If you have problem to login please fill this form:

Account investigation

Remembering to select 'ET Member' in the 'Member of' section

This site is running Foswiki release Foswiki-2.1.7, Plugin API version 2.4

Edit | Attach | Print version | History: r7 < r6 < r5 < r4 | Backlinks | View wiki text | Edit wiki text | More topic actions

Topic revision: r7 - 18 Jan 2023, AdminUser

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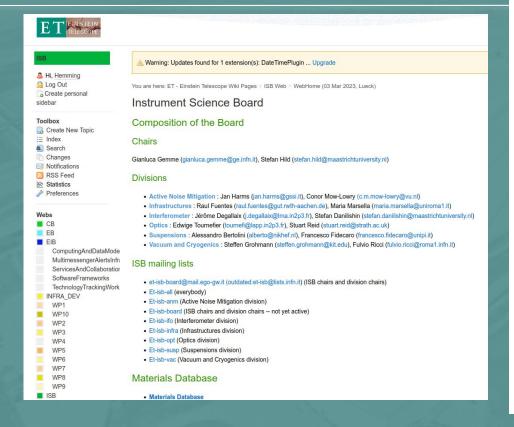




https://wiki.et-gw.eu/

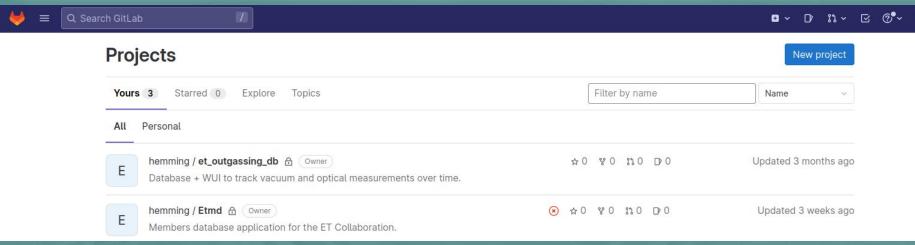




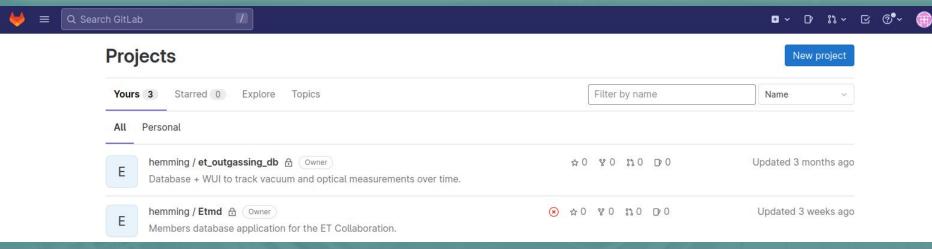


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	Infrastructures	
	Interferometer	
	Calibration	
	ModelDesignTools	
	NoiseChar	
	Observatory Design And	
	MaterialsDatabase	
	Optics	
	CoreOptics	
	InputOutputOptics	
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	SqueezedLight	
	Wavefrontsensingando	
	Suspensions	
	LF_Payload	
	Vacuum_Cryogenics	

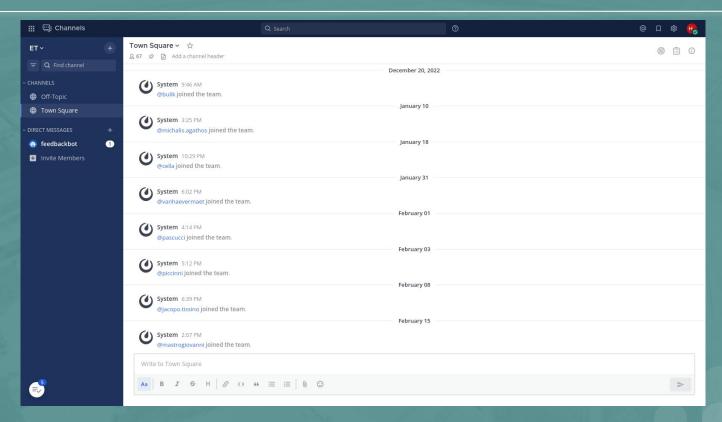




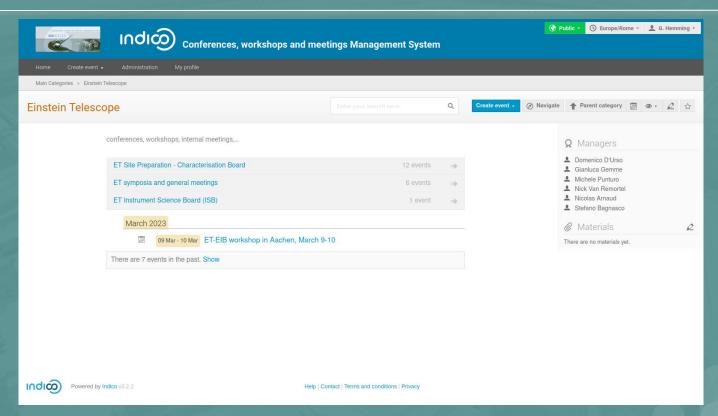


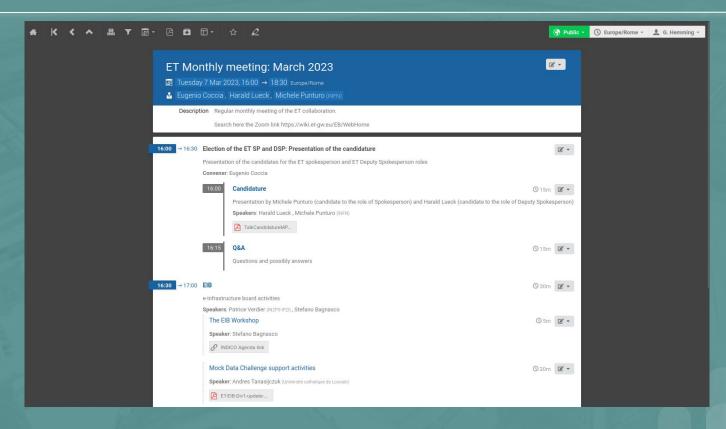














Main Menu

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FT-Docs Codifier

ET Wiki

ET Project

The ET collaboration

Introduction

Details

Mritten by: Administrator

m Created: 10 October 2008

🛗 Last Updated: 09 September 2020

Hits: 44293

The Einstein Telescope (ET) is a proposed underground infrastructure to host a third-generation, gravitational-wave observatory. It builds on the success of current, second-generation laser-interferometric detectors Advanced Virgo and Advanced LIGO, whose breakthrough discoveries of merging black holes (BHs) and neutron stars over the past 5 years have ushered scientists into the new era of gravitational-wave astronomy. The Einstein Telescope will achieve a greatly improved sensitivity by increasing the size of the interferometer from the 3km arm length of the Virgo detector to 10km, and by implementing a series of new technologies. These include a congonic system to coal

News

The second Site Preparation
Board (SPB) workshop will take
place from23-26 January 2023,
Maastricht (NL). This will be the
occasion to discuss and get
updates on the various activities
taking place at the sites aspiring to
possibly host the future Einstein
Telescope (Sardegna in Italy, EMR
partially in Belgium, Germany &
The Netherlands and possibly
Lausitz in Germany). In particular
(hydro)geology aspects, noise





• Designated for presentation of Vacuum outgassing and/or Optical contamination tests for materials, assemblies and components that need to be installed in the vacuum system.

Policy to add data:

- 1. Use of literature-referenced data.
- 2. Measurements obtained from laboratories (belonging to ET collaboration or external) when accompanied by a full explanatory report.

A template of the outgassing and optical contamination test report is available if needed.

Vacuum measurement: Low Volatile Compound 'Hydrocarbon' (HC) are considered to be all fragments > 45m/z (as 45 m/z may be large because of the 44 m/z high value). The background value is subtracted. Those compounds are considered potential contaminants for the optical surfaces operated at room temperature.

Component: Select item in the list or create a new one by choosing '+'. Do not forget to save the name by clicking on the save icon.

Vacuum measurement: When HC are detected, indicate in 'Peaks N>45' the main peak(s). More information can be written in the notes or report.

Vacuum measurement: Outgassing rates: N2 equivalent unless differently specified.

Vacuum measurement: 'Others' refers to gases detected in the RGA analysis which do not fit into the HC definition (i.e. main gases found under vacuum, such as CO, CO2, CH4, O2, etc.).

References: [1] Vacuum technology standards, [2] Optical contamination measurement method, [3] Template of the outgassing and optical contamination test report.

⊕ Component					otical ements					∑Va	▼ Vacuum measurem			
Item			History	Optical O			mbar-I/s							Q
			check losses (ppm)				Q_H20 @1000H	Q_H2	Q_N2+OTHERS @24h	Q_N2+OTHERS @100h	Q_HC (level>44)	N> (m		



Et-all

Et-cb

Et-controls-sim

Et-eib-div1 Et-eib-div2

Et-eib-div3

Et-eib-div4

Et-eib-ttg Et-isb-all

Et-isb-anm

Et-isb-board

Et-isb-ifo Et-isb-ifo-isc

Et-isb-ifo-noisechar

Et-isb-infra

Et-isb-opt Et-isb-opt-ioo

Et-isb-opt-las

Et-isb-opt-ohf

Et-isb-opt-olf Et-isb-opt-scl

Et-isb-opt-sqz

Et-isb-opt-wsc Et-isb-susp

Et-isb-vac-beampipe

Et-isb-vac-cryo

Et-osb-all

Et-osb-board Et-osb-chairs

Et-osb-cosmology

Et-osb-da

Et-osb-fundamental

Et-osb-mmo

Et-osb-nuclear Et-osb-populations

Et-osb-stellarcollapse-ns

Et-osb-synergies

Et-osb-tools

Et-osb-waveforms

Et-paper-reviewers

Et-ru

Et-vac-tower

https://mail.ego-gw.it/mailman/listinfo

Currently 41 ET mailing-lists

Mailing-lists

- EGO is also involved in the ET Authentication, Authorisation Infrastructure
- The current AAI system for the few existing ET applications is very basic, using ad-hoc accounts and groups managed in a single location (EGO Active Directory) but without SSO
- When the new infrastructure is ready, the current accounts will eventually be dismissed, or hidden via identity-linking, behind accounts that are more comfortable for the users (i.e. EduGAIN credentials)

- Work on the overall next AAI infrastructure for ET is in the preparatory phase
- Cyfronet CC (Kraków) has offered to undertake this task, having experience with a SSO infrastructure of the order of 10K users
- They are evaluating the state of the art of AAI applied to a Virtual Organization and EGO collaborates as the responsible for the Source of Authority, the ET Members Database (ETMD)

- The next step will be the gathering of requirements, after which the discussion on the possible alternative models will start
- Potential formation of a dedicated working group