Conclusive Remarks





2nd Einstein Telescope Annual Meeting

Nov 14–17, 2023 IJCLab

Europe/Paris timezone

Participant List

551 participants

162 in person registered participant (145 present)395 remote participant registered143 contributions (talks)

It was a very interesting and, we think, a very successful event!

THANK YOU!

Enter your search

Local organizing committee

The IJCLab (CNRS/IN2P3 and UPSaclay) A2C/OG group

- Nicolas Arnaud
- François Glotin
- Angélique Lartaux
- Nicolas Leroy
- Florent Robinet

+ helpers

The organisation of this meeting has been excellent! Especial thanks to Angelique for finding solutions for every problem we encountered!

	[
	Registration	177.46	08:30 - 02:00	09:00	ISE: PES-TOR Alexandro Variale 🥖 et al.	Introduction Darote Rosinske	Introduction Patrice al.
09:00	Local authorities welcome talk 2000-Auditorum - Auditorium P. Lehmann		Prof. Actallie Statchi 08:00 - 09:05			ET Web, social media and logo VINCENZO Nepol	ESCAPE and the ET Giovanni Lamanna (TBC)
i i	Logistics 2009-Audiorium - Audiorium P. Lehmenn		Dr Flowert Robertet			ET resources/repository Sascha Risgar	The TechZoo cluster in T Lis Levezzi et al.
	ET Collaboration Board report 2000-Auditorium - Auditorium P. Lehmann		Eugenio Coccia d 09:10 - 09:20		2000-Auditorium - Auditorium P. Lehmann, UCLab 19:00 - 09:55	ET Education Center in Netherlands Gitteon Koekoek	2007-201 - Saile 201, UC 09:30 - 09:50
	ET Collaboration: Executive Board repo 2000-Auditorium - Auditorium P. Lehmann		Michele Puntaro et al. 0 09:30 - 09:50	10:00	ISB: ET sensitivity Mitheil Korobko 🥖	ET communication and public engag Matteo Sens	Mock Data Challenge: st
10:00	EIB short introduction 2000-Auditorium - Auditorium P. Lehmann	1371-00	Action Study et al.			Discussion 2002-129 - Salle 239, UCLab	Ceneva Workshop outco Paul Laycock
10.00	OSB short introduction 2000-Auditorium - Auditorium P. Lehmann		Ed Porter et al. @ 10:05 - 10:20		2000-Auditorium - Auditorium P. Lehmann, UCLab	10:05 - 10:25	Sustainability & computi Patrice VERDER
\$	SPEISCE short introduction 2000-Auditorium - Auditorium P. Lehmann		Comenico (71/50 et al. 6 10/20 - 10/25		09.55 - 10.50 Coffee break	Coffee break	
1	155 short introduction 2000-Auditorium - Auditorium P. Lehmann	di ta	Jan Harris at al.	11:00	ISE: Optical layout	Engineering Department Mendlete ar	Observational Science D
11:00	Coffee break		10-50 - 11-10		Julia Casanowa	M Patrick Wernike Roadmap for Civil Engineering Preli	Chair meeting
	ETD news and updates 2000-Audiorium - Audiorium P. Lehmann	171 ab	Anchees Freise, Freise et al.		2009-Auditorium - Auditorium P. Lefmann, UCLab 11:10 - 12:05	merie maraelle Links between special systems and 🥖	
1	ET-PP news and updates 2000-Audiorum - Audiorum P Lehmann		Phof. Mario Martinez d 11:30 - 11:45	12:00	1525: General plenary Stellar Hild 🥔	Lugi schle SPB contributions to civil engineeri.	
8	ETO Project Office 2000-Audionum - Audionum P. Lehmann		Alexandro Variala 🖉 1145 - 12:00		2009-Auditorium - Auditorium P. Lehmern 1321 ab	domenico d'usio e Seed questions and future actions	2007-139 - Saile 139, UC
12:00	ETO Engineering Department 2000-Auditorium - Auditorium P. Lehmenn		Mt Patrick Werneles	13:00	1205 - 1200 Lunch break	Executive Board	11:10 - 12:00
÷.	ETO Communications 2000-Authorum - Authorium P Lefmann		Matine Dutientoven d				
\$	CERN vacuum pipe results 2000-Auditorum - Auditorium P. Lehmenn		Carlo Scarcia d 12:30 - 12:45			13:00 - 14:10 2007-139 - Sadie 13	
1	CERN vacuum pipe planning and perspective and	ective	Luigi Scibile 🥖 12:45 - 13:00	14:00	Introduction Steven Schramm	EMR General overview and	Introduction about Sapp
12:00	2009-Audionam - Audionam P. Lehmenn, Lunch break	.D.Lati	100-110		Setting the stage Marice Dranchesi 🥔	Deganization Win Walk 2003-301 - Saile 202, UCLab 14:30 - 34:30	Flavo Travasco 2000-Auditorium - Auditor Lehmann, UCLab 14:10 - 14:20
					Virgo low latency 🦪 Roberto De Pietri	EMR borehole drilling approach and schedule	KAGRA sapphire tast m Marc Eisenmann
14:00			12:00 - 14:10		Vena Rubin Julien Peloton 🥔	Djorn Vink	Apparatus for birefringer Prof. Guido Zavat
	Division 1 - Fundamental Physics @ Ration/ Ports	Upgrade of active and passive atten @ Lecrearch Lucches	Introduction to Sendinia Candidatus 🔗 Activities Demanico (J?Uso)	15:00	ESA OliverJannich 🤞	EMR Seismic and noise measuments Michael Kietre	Status of cryogenic payl Ellore Majorana
	Division 2 - Cosmology 🥔 Archisman Glash	Francesce Spache	Progressing lowerds the 4D geological characterization of the Einstein Telescope site in Serdinia		ESO Nando Palalat 🔗	EMR geomechanics and civil engine Patricia Larges	Discussion
_	Division 4 - Multimessenger Observ. 🤗 Diencerto Chinter	Novel prototype for the ET Superatio	Dr Luca Cardello		1004-1-4900 - Auditorium Juliot Claris, J 15:20 - 15:25	Discussions and Conclusions (Site Characterization strategy, Workshop,	Virgo Next coatings A
15.00	Division 5 - Synergies with other GW Nicola Tansanini	Simulating the Superathemator with Maximiliano /Naz	Summary of site characterization		Virtual observatory discrept Greco) Domenico D'Uiso et el.	Core optics and coating Efisabetta Cesarin
	Division 6 - Nuclear Physics 🥔 Micaela Cleriol		De Matero Di Giovanni		1004-1-4000 - Auditorium Jolior Curit, I 15:40 - 15:55	200/2-202 - Saile 202, IJCLab 15:30 - 15:55	Current status of the Col Giacomo Ciani
	Division 7 - Stellar Collapse and Isol 🖉 Marie-Anne Biroz	The ET beampipe requirements 🔗 Aviello Gradu	200/1-303 - Saile 203, UCLab 15:00 - 15:40	16:00	Coffee break	Coffee break	
	Division 3 - Population Studies 🥔 Giulie Cusit	A new real-time control system for r 🥔 Paolo Properi	Review on Sardinia Measuments: d 🤗 Dr Alessio Fion		Project Office: Layout & Parameters 🤗 Alassio Rocchi	SLC noise simulations in main arms 🤗 Marc Anches et al.	QDPI: A new facility at S Vercnice Granate
16:00	Coffee break	Coffee break	Coffee break			Dust Studies Anches Moscalello 🥖	Temperature-dependent Michele Magnozzi
	Division 6 - Waveforms 🥔 Patricie Schmid	PLaNET Laboratory	152: Parallel session: ET-LF tower 🥖 Staffen Grofesen		100-1-4900 - Auditorium Johot Curie,	Cryotrap baffle layout discussion 🥔 Status Hanka	Update on crystalline or Jean-Pierre Locquet
	Division 9 - Common Taola 🥔 Ik Siong Plang	E-TEST Seder Armer		17:00	100-1-4000 - Audionum Johof Curre, UCLub 16:15 - 17:05	Discussion	Discussion: periodic cor and new groups
	Division 10 - Data Analysis Platform 🥔 Tania Regimbes	E-TEST Pasa Jarohit 🥖			Project Office: Risk Analysis 🥔 Ghade Mehmoud		Distributed seismic strait Katharina-Sophie
17:00	Collaboration Board	1525 workshop: Recycling cavity design					Compact interferometric Meenakshi Mahe
	100-1-4000 - Auditorium John Clarie, UCL III	2000-Audiorum - Audiorum P. Lehmens, UCLab	200/3-303 - Saile 203, UCLab		100-1-4900 - Auditorium Johot Curie, UCL ab 17:05 - 18:00		Newtonian Noise Cancel Soumen Koley
18/00	17:00 - 18:00	17:00 - 18:00	16:15 - 18:00	18:00	21745-20181		

18:00

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	DSE: Mock Data Challenge	Ed Parke	Project Office: Global Configuration	Christian Olivetto et al.		
	2000-Audionum - Audionum P. Lehmann, UXLab 19200 - 08:45	i.	2001-101 - Sadie 101, UCLab	09:00 - 02:55		
00	Specific Board reports					
	2000-Auditorum - Auditorum P. Lehmann, UXI ad	i.		0955 - 1050		
00	Coffee break			10:50 - 11:10		
	Specific Board reports			1050-11-10		
	2009-Audionen - Audioren P. Ishmen, UCLeb	2		1110-1205		
00	Towards the new Einstein Telescope logo: a jou	rney of disco	owery	Summer Mide of al.		1
	2000-Auditarium - Auditorium P. Lahmann, UCLab			12:05 - 12:30		
	Conclusions			Planald Lunch of al.		
100	2000-Auditatum - Auditatum P. Lahmann, UCLab	6		12:30 - 13:00		
.00		Alex Attain. 410-1420	1 oduction: welcome + goals of the	13:00-14:10 workshop	02.00	
	PLAN A TABLE THE AVE. INTEREMENT					
	Summary of workshop in Glasgow (core optics) Archew Spancer	1	THE ARE ADDIDED ADDIDED	1415,1415		
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A very busy schedule (again) Make sure you upload your presentations!

09.00	Introduction: ET-PP and WP9 2009-1-4000 - Auditorium Joliot Carle, UCLab	09.00-09.20
	Topical discussion: sustainability of the ET site infrastructure	Einabeth Hausinger et al
	100-1-4900 - Auditorium Joliot Curie, UCLab	09.70 - 09.45
	Topical discussion: sustainability and the ET instrument design	Hanald Lawck et al
10:00	2009-2-A600 - Auditorium Juliot Curie, LICLah	09.45 - 10.10
	Topical discussion: sustainability and the ET computing	Nicolas Ansaz
	100-1-A500 - Auditorium Juliot Curie, LICLah	10:10-10:2
	Topical discussion: sustainability and the ET communication & outwach	Nicolas Amaz
	2005-1-Ast00 - Auditorium Juliot Curie, LICLab	10:25 - 11:00
11:00	Coffee break	
	109-1-A900 - Auditorium Joliot Curie, UCLab	11:00 - 11:30
	Organization of the sustainability work in ET	
	2001-1-A000 - Auditorium Juliot Curie, UCLab	11:30 - 12:00
12:00	Conclusions of the workshop and next steps	
	2001-J-A900 - Auditorium Juliot Curie, UC2ah	12:00 - 12:30

ET Core optics workshop

g R&D plan . pMET facility

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Sustainability workshop Sustainability: Please return your badges to the LOC. They will be reused!

Structure of the meeting

Not everyone agreed on the necessity of the introductory part.

HL: I liked it - to start with a brief recap of where we are and what we want to do at this meeting.

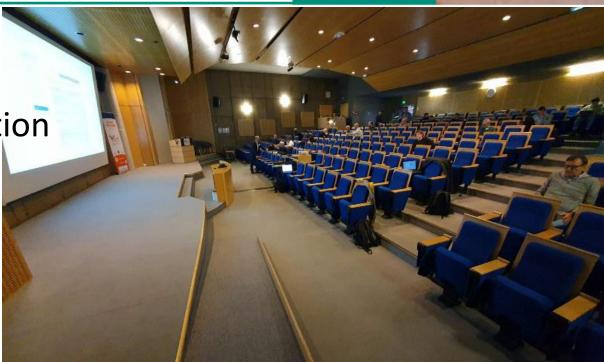
With a meeting of this size and diversity, parallelism is unavoidable. Uploaded presentations allow us all to follow up on the sessions we missed!

		•
Division 1 - Fundamental Physics <i>Rafael Porto</i>	Upgrade of active and passive atten. Leonardo Lucchesi	Introduction to Sardinia Candidature Activities Domenico D'Urso
Division 2 - Cosmology @ Archisman Ghosh	A test facility set-up for characterizal 🤌 Francesca Spada	Progressing towards the 4D @ geological characterization of the
Division 4 - Multimessenger Observa 🤗 Giancarlo Ghirlan	Novel prototype for the ET Superatte @ Francesco Fidecaro	Einstein Telescope site in Sardinia Dr Luca Cardello
Division 5 - Synergies with other GW Nicola Tamanini	Simulating the Superattenuator with Massimiliano Raz	Summary of site characterization @ activities at the Sardinia candidate
Division 6 - Nuclear Physics @ Micaela Oertel	HF TM towers Antonio Pasqualetti 🥝	site for the Einstein Telescope Dr Matteo Di Giovanni
Division 7 - Stellar Collapse and Isol. Marie-Anne Bizou	The ET beampipe requirements @ Aniello Grado	200/1-101 - Salle 101, IJCLab 15:00 - 15:40
Division 3 - Population Studies 🥜 Giulia Cusin	A new real-time control system for n Paolo Prosperi	Review on Sardinia Measuments: d. @ Dr Alessio Fiori
Coffee break	Coffee break	Coffee break
Division 8 - Waveforms 🥖 Patricia Schmidt	PLaNET Laboratory 🦉 Luciano Di Fiore	ISB: Parallel session: ET-LF tower Ø Steffen Grohmann
Division 9 - Common Tools 🧷	E-TEST Sider Ameer	
Division 10 - Data Analysis Platform 🥔 Tania Regimbau	E-TEST Rasa Jamshidi 🥝	
Collaboration Board	ISB workshop: Recycling cavity desi 🤌 Julia Casanueva	
100/-1-A900 - Auditorium Joliot Curie, IJCLab	200/0-Auditorium - Auditorium P. Lehmann, IJCLab	200/1-101 - Salle 101, IJCLab
17:00 - 18:00	17:00 - 18:00	16:15 - 18:00

Local authorities welcome talk	Prof. Achille Stocc	hi
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	09:00 - 09:0)5
Logistics	Dr Florent Robinet	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	09:05 - 09:1	10
ET Collaboration Board report	Eugenio Coccia	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	09:10 - 09:3	80
ET Collaboration: Executive Board report	Michele Punturo et al.	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	09:30 - 09:5	50
EIB short introduction	Achim Stahl et al.	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	09:50 - 10:0)5
OSB short introduction	Ed Porter et al.	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	10:05 - 10:2	20
SPB/SCB short introduction	Domenico D'Urso et al.	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	10:20 - 10:3	35
ISB short introduction	Jan Harms et al.	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	10:35 - 10:5	50
Coffee break		
	10:50 - 11:1	L O
ETO news and updates	Andreas Freise;Freise et al.	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	ETO Paris-14.11.23.pdf	0
ET-PP news and updates	Prof. Mario Martinez	e
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	11:30 - 11:4	15
ETO Project Office	Alessandro Variola	C
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	11:45 - 12:0	00
ETO Engineering Department	Mr Patrick Werneke	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	12:00 - 12:1	15
ETO Communications	Martine Oudenhoven	Ø
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	12:15 - 12:3	80
CERN vacuum pipe results	Carlo Scarcia	C
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	12:30 - 12:4	15
CERN vacuum pipe planning and perspective	Luigi Scibile	C
200/0-Auditorium - Auditorium P. Lehmann, IJCLab	12:45 - 13:0	00

Targets achieved...

- Occasion for lots of fruitful discussions
- Lots of progress in many directions
- "Internal" dissemination of the information on progress and the status of the Collaboration and ETO





Re'Em Sari + 5 scientists from





- \rightarrow 1565 members in the ETMD
- + a Portuguese group expressed interest in joining us...

...but

ET EINSTEIN TELESCOPE

The total number of FRTEs declared in the ET Member database is **344.45**

- 98 FRTE in ISB
- 76 FRTE in OSB
- 8 FRTE in EIB
- 14 FRTE in SCB

Which fraction of these people is working on current ET needs? How many FTE is an average FRTE?

The Collaboration is suffering the effects of a rapidly growing phase: The contributions of ET members are unevenly distributed and not verified (yet). We will remain inclusive but will also have to become more selective. Need to define eligibility criteria. The 2L vs Δ debate (CoBA process) is now entering at many levels:

- ET (as a whole) needs to define and optimise the decisional process (including defining the required information and timescales)
- The ET Collaboration must be a proactive contributor to this process

EINSTEIN

E

One ET endeavour!

ET and ETO constructively work together on several levels:

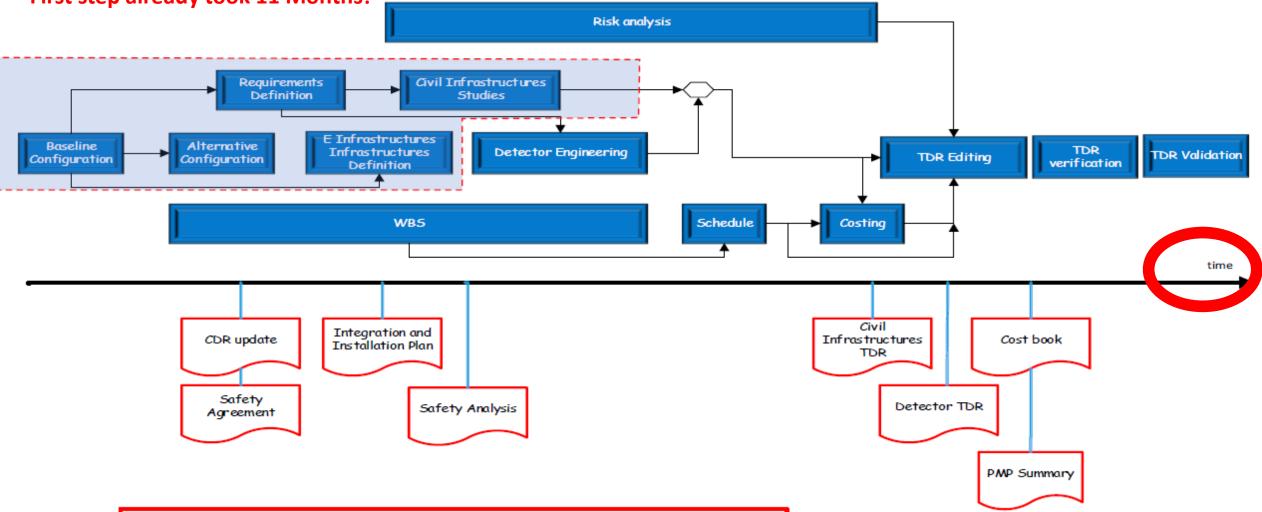
- PBS-2-TDR
- Risk analysis

	E		STEIN SCOPE					
ETO (ET Organisation)			ET Collaboration					
Board of governmental	Board of governmental representatives			Collaboration board				
Board of Scientific Coordinators								
ET Director	ET Directorate			E>	cecutive board	d		
				S	specific board	s		
Project office	Engineering department			ISB	OSB	EIB		
Administrative office	ET-PP			SCB	SSB			

From PBS to TDR

Steps for PBS have been clarified and clearly communicated If there are still questions \rightarrow PO (Alessandro, Alessio)

-First step already took 11 Months!



Timelines

A hot topic! We need a **Robust, Coherent, Shared Roadmap** This requires the cooperative effort of many actors: EINSTEIN

EΤ

- ETO
- ET-PP
- Collaboration
- BGR
- BSR
- Other?

There are (different) boundary conditions for each contributor. These have to be communicated, understood and one common timeline to be developed.

not Outreach... ET-internal Communication

What are we doing wrong?

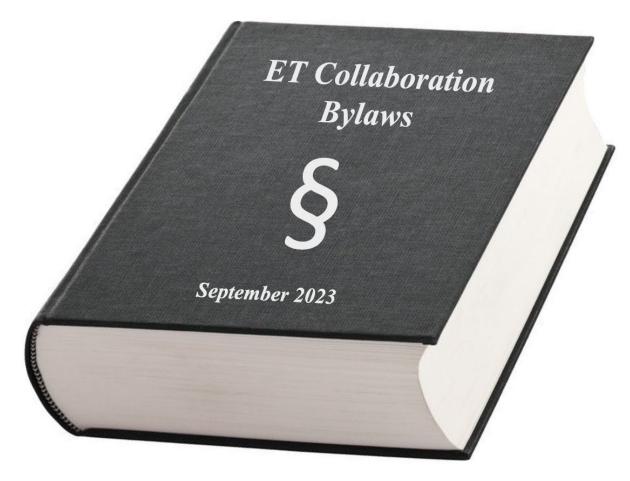
We need bidirectional transparency between all involved bodies to understand each other's needs!



Credit:jairekrobbins.com

Collaboration Organisation

ET EINSTEIN TELESCOPE



We have got the basic Bylaws, but a lot is still missing:

- Clear mandates, policies and procedures will soon be defined
- No Editorial Committee yet,
 BUT some light, preliminary
 publication guidelines
 in OSB and ISB

The Code of Conduct defines the behaviour of people within the ET collaboration. It is the foundation of the \mathbf{C} ollaboration.

The ET Collaboration strives for workplaces free from discrimination and harassment. It is the policy of the Collaborations that all members will conduct themselves in a professional manner that is welcoming to all participants and free from any form of discrimination, harassment, or retaliation. Members will treat each other with respect and consideration to create a collegial, inclusive, and professional environment. Creating a supportive environment to enable scientific discourse is the responsibility of all members. Members will avoid any inappropriate actions or statements based on individual characteristics such as age, race, ethnicity, sexual orientation, gender identity, gender expression, marital status, nationality, political affiliation, ability status, or educational background. Disruptive or harassing behaviour of any kind will not be tolerated. Harassment includes but is not limited to inappropriate or intimidating behaviour and language, unwelcome jokes or comments, unwanted touching or attention, offensive images, unwelcome photography, and stalking. Disruptive behaviour includes instances of disrespect and lack of civility in interactions with colleagues. All members are expected at all times to deal with and address their fellow colleagues with respect and courtesy. This includes Important workshops in the near future:

• SPB workshop in Amsterdam: 6-7 December 2023

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- ET-PP meeting in Barcelona: 11-12 December 2023
- III Annual meeting: Where? When?
- XIV ET symposium, Maastricht: 6-10 May 2024
 - \rightarrow Stefan will tell you...

Einstein Telescope Symposium

6-10 May 2024 - Maastricht, Netherlands

BBIODO

ET-Symposium Event Locations



@MECC; 6-8 May parallel sessions



@St. Jan's Church; 9-10 May plenary Sessions

