

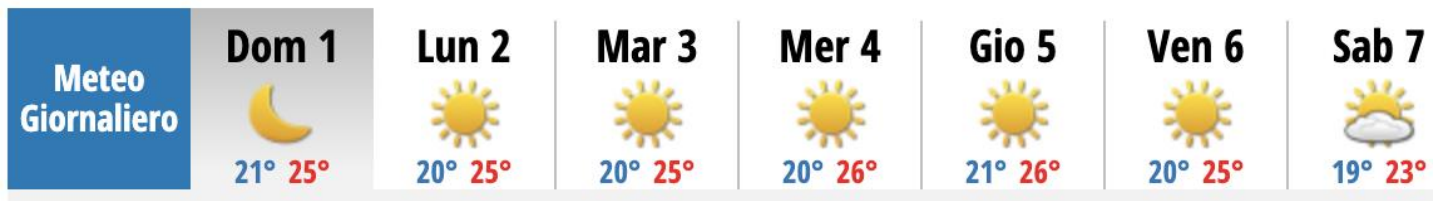


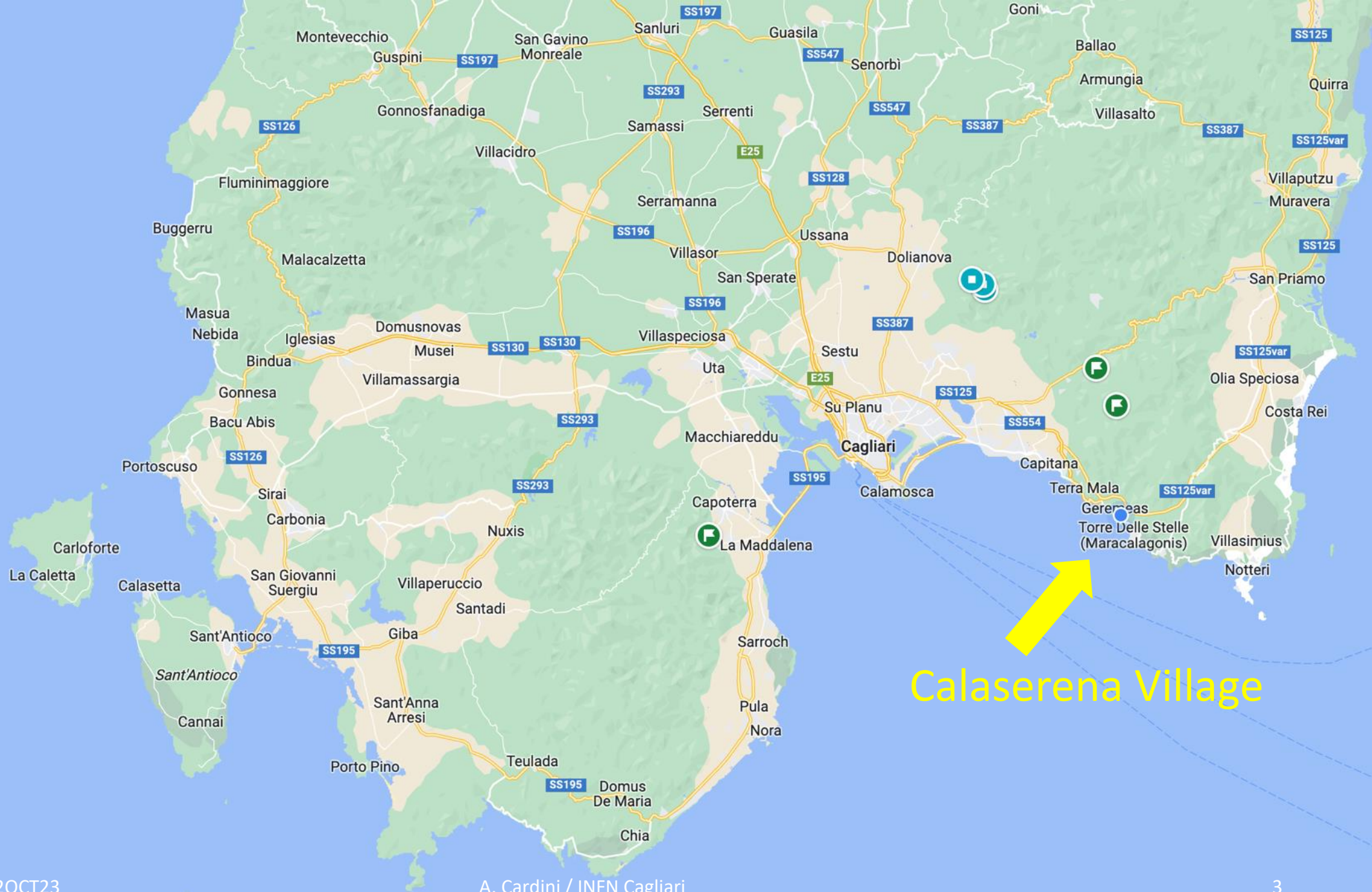
Benibenius in Sardinia!

A. Cardini / INFN Cagliari
on behalf of the L.O.C.

Sardegna, the second largest island in Italy

- Total population 1.57M (2022)
- **Cagliari** is the main town, located in the south (population in the Cagliari area: ~300K)
- Weather is usually nice in October, and this year also it doesn't seem to be too bad 😊

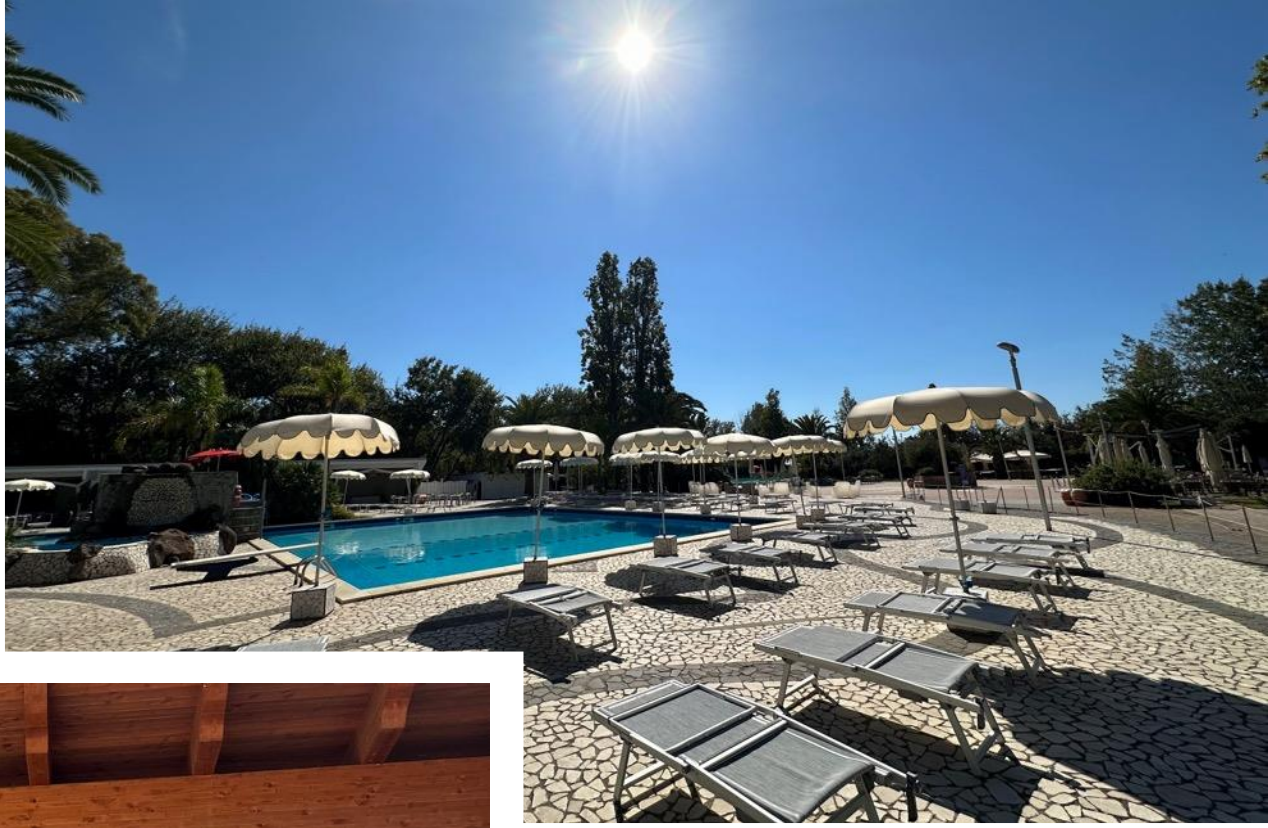




Calaserena Village

TWEPP 2023

TROPICAL WORKSHOP ON ELECTRONICS FOR PARTICLE PHYSICS
CALASERENA RESORT, SARDINIA, ITALY, 2 - 6 OCTOBER 2023

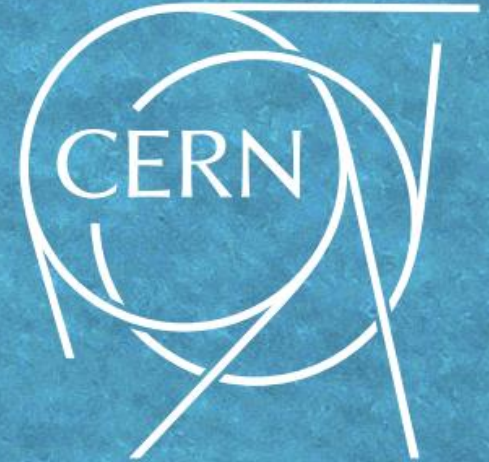


Calaserena, 02OCT23



A. Cardini / INFN Cagliari





Organised by INFN, Istituto Nazionale di Fisica Nucleare, sezione di Cagliari and Università degli Studi di Cagliari with support from the European Organization for Nuclear Research (CERN).

Local Organizing Committee

- A. Cardini (INFN Cagliari) (Chair)
- A. Lai (INFN Cagliari)
- S. Cadeddu (INFN Cagliari)
- G. Usai (Università & INFN Cagliari)
- C. Cicalò (INFN Cagliari)
- S. Siddhanta (INFN Cagliari)
- A. Contu (INFN Cagliari)
- D. Brundu (INFN Cagliari)
- G. M. Cossu (INFN Cagliari)
- A. Loi (INFN Cagliari)
- A. Lampis (INFN Cagliari)
- A. Mulliri (Università & INFN Cagliari)

Martina (Event Manager)
Teresa (Kassiopea's CEO)
Stefania, Fabiana, Mara (Hostesses)

The organization of the event is managed by Kassiopea Group SRL.



Address: Via San Tommaso D'Aquino 20 - 09134 Cagliari (Torre Verde)
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Fax: +39 070.656263
Mail: info@kassiopeagroup.com

Università degli Studi di Cagliari



Largest University in Sardinia

- 17 Departments, about 25,000 students

The Physics department has 45 staff scientists

- Strong involvement in CERN (LHCb and ALICE) and Gran Sasso experiments



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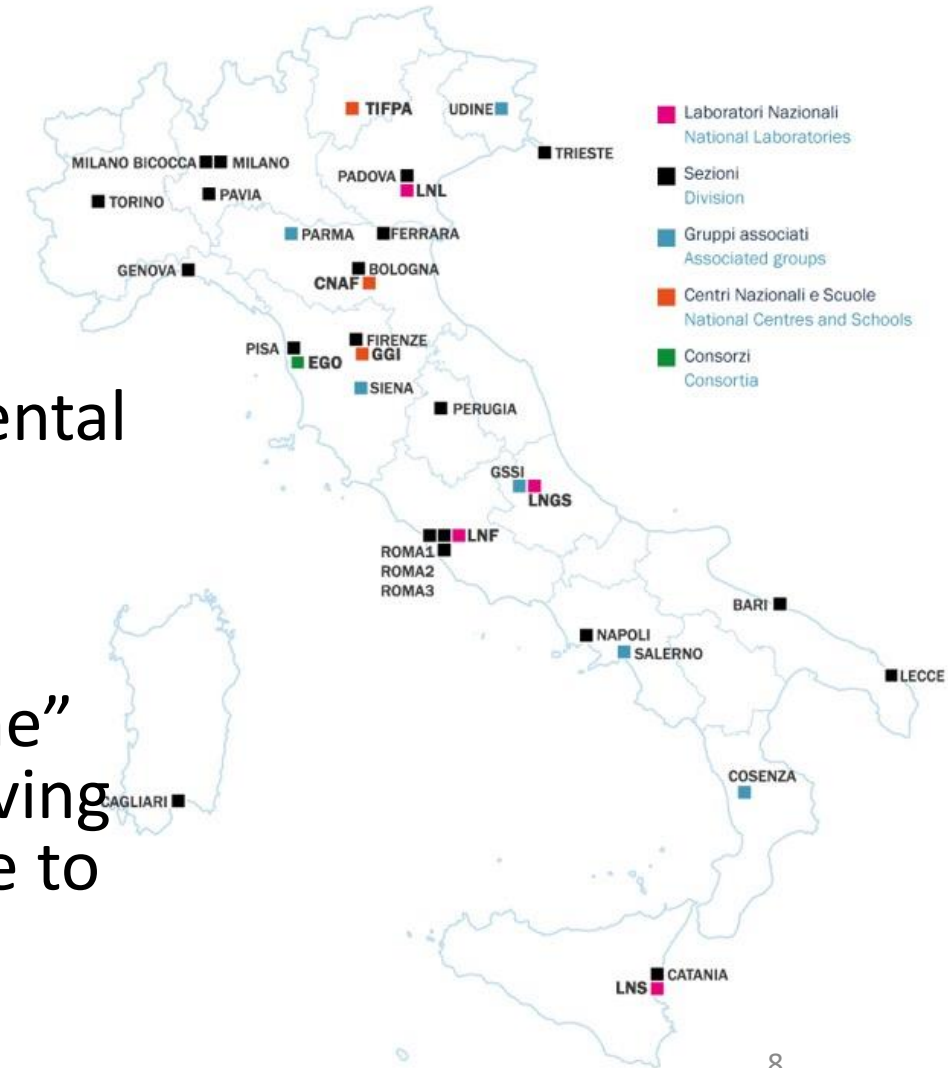
A. Cardini / INFN Cagliari



INFN sezione di Cagliari



- INFN is the Italian Nuclear Physics Institute, funded in 1951. It is organised in 20 local institutes (“Sezioni”), 4 national laboratories and other connected institutions and labs
- In Italy INFN performs the research in HEP, astroparticle and nuclear physics, both experimental and theoretical, in close collaboration with Universities
- INFN Cagliari (www.ca.infn.it) is the only “Sezione” INFN in Sardinia. It was funded in 1988, after having operated for many years as an associate institute to INFN Torino

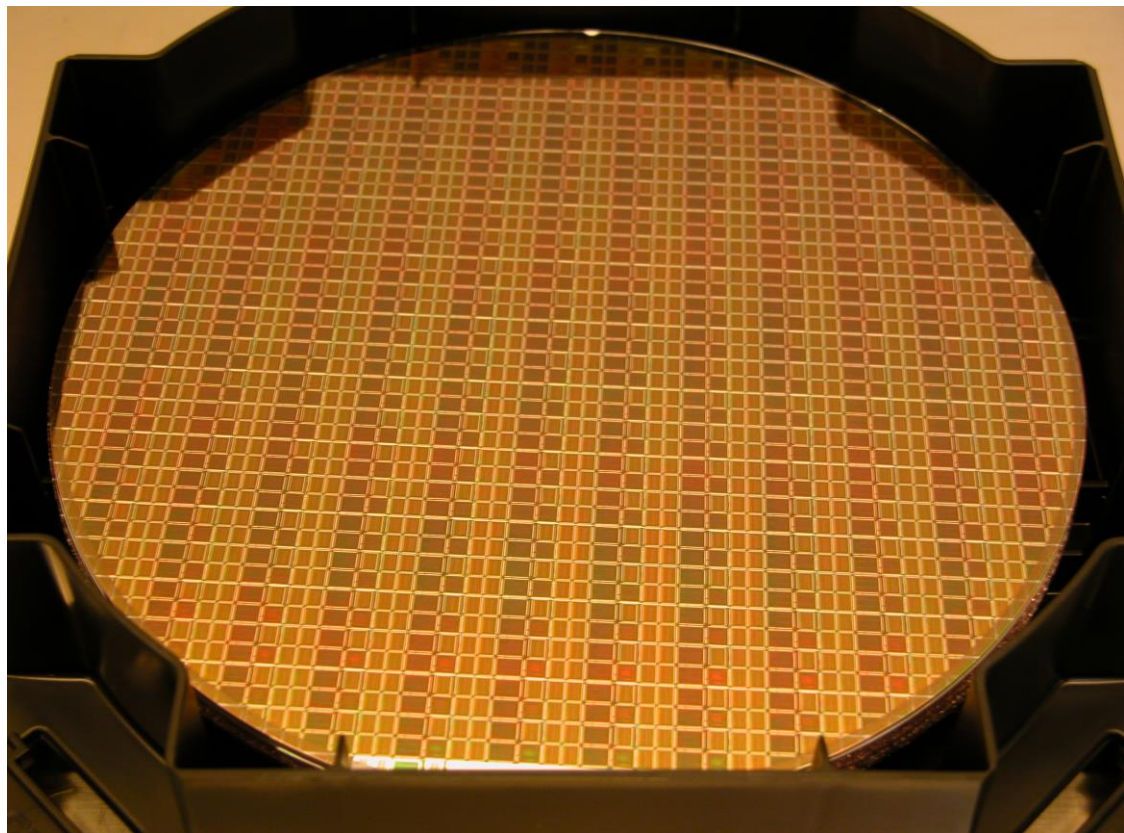


INFN sezione di Cagliari

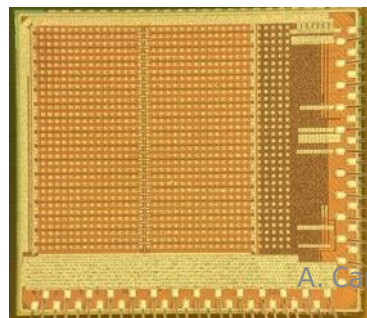
- Approximately 100 people (including all INFN staff and associates) contribute today to various INFN research projects
- Historical presence of the Cagliari researchers at CERN, today involved mainly in LHCb and ALICE experiments. Other important research activities are performed in NA60, Darkside (LNGS) and more recently our researchers joined Einstein Telescope and VIRGO collaborations. Our theoreticians support many of the the experimental activities
- From the R&D point of view, the Cagliari researchers have worked since the '80s in microelectronics, developing ASICs for HEP experiments and medical applications



List of μ Electronics project since 1993



IBM 0.25 μ m CMOS (LHCb)



**Last born:
Timespot1 CMOS 28nm**

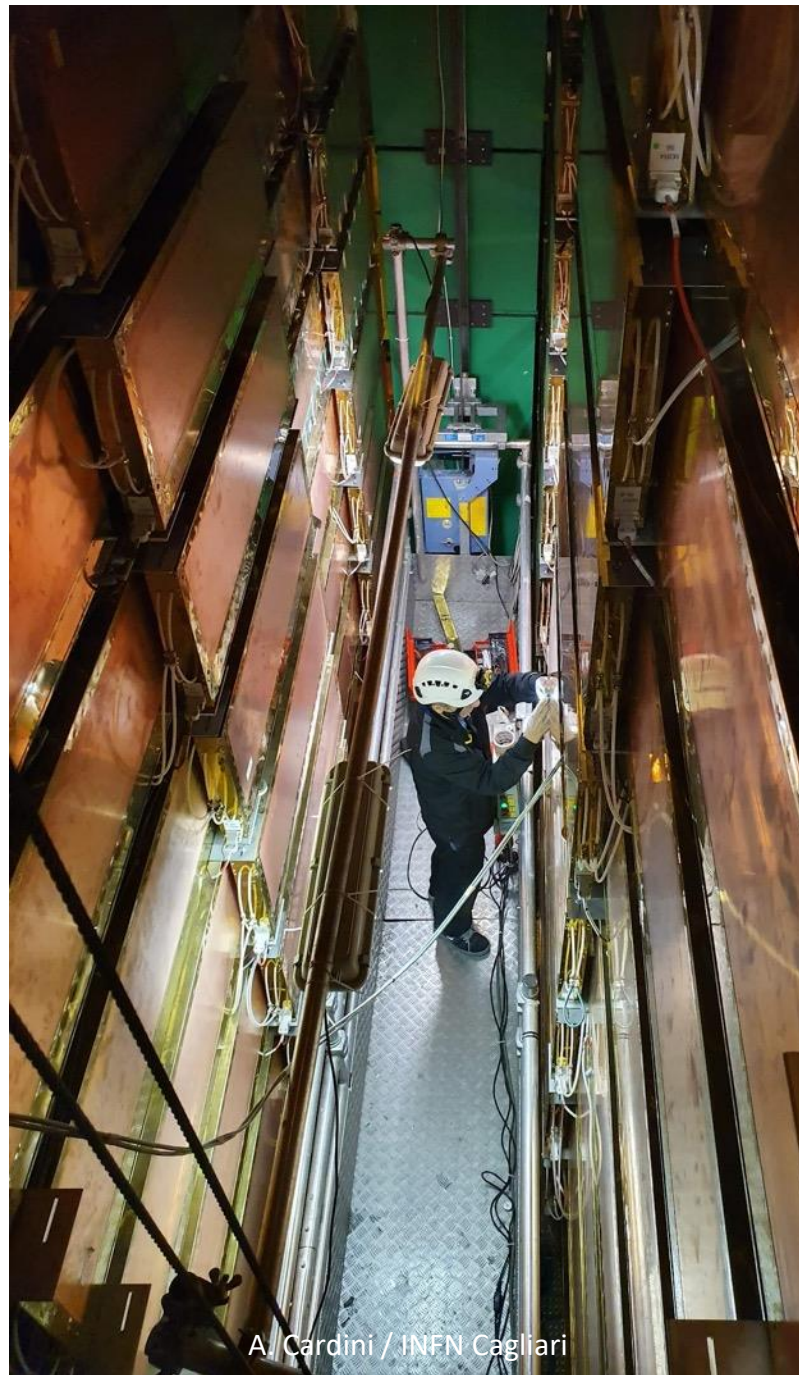
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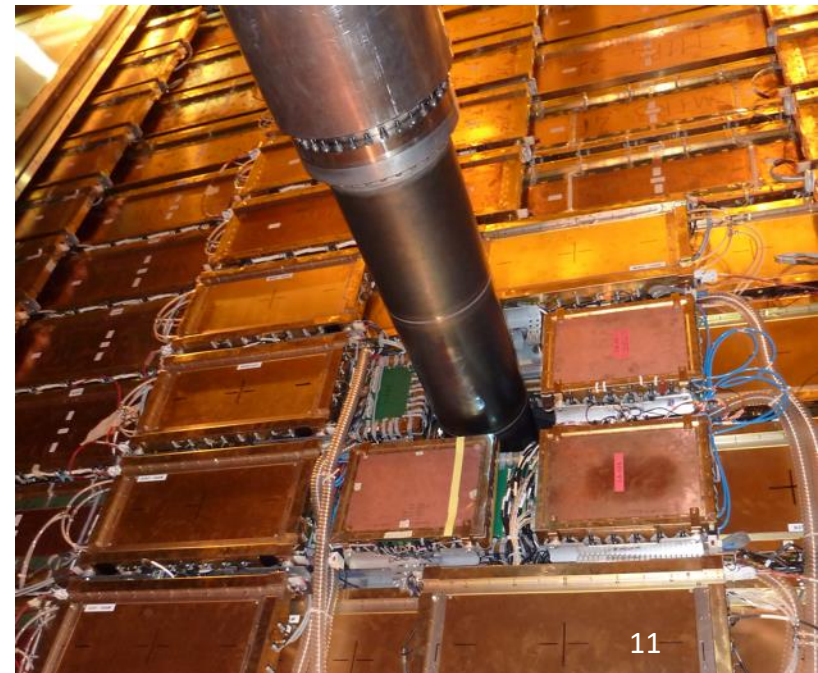
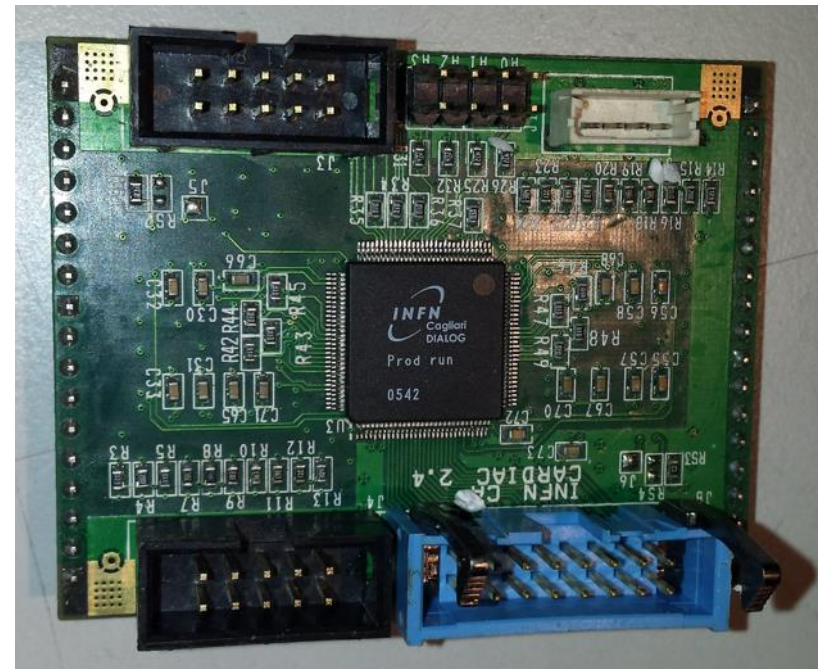
Name	Year	Technology	Size [mm ²]	Application
Timespot1	2021	TSMC 28nm CMOS	2 x 3	4D tracking
Timespot0	2019	TSMC 28nm CMOS	1.5 x 1.5	4D tracking
nSYNC	2016	UMC 130nm CMOS	4.4 x 3.8	LHCb
Sensi+2	2016	UMC 180nm CMOS	1.5 x 1.5	Dosimetry
Sensi+1	2013	UMC 180nm CMOS	1.5 x 1.5	Dosimetry
ADV2	2015	UMC 130nm CMOS	1.5 x 1.5	All digital TDC
ADV1	2013	UMC 130nm CMOS	1.5 x 1.5	All digital TDC
PRIMA+	2012	AMS 350nm CMOS	2.3 x 8.0	Proton imaging
ITAC	2010	UMC 90nm CMOS	1.76 x 1.76	TDC development
DIALOG	2004	IBM 250nm CMOS	4 x 4	LHCb
SYNC	2004	IBM 130nm CMOS	3.9 x 4.9	LHCb
KPIX	2000	AMS 0.6 μ m CMOS	16 x 4.3	DNA sequencer
MARC	2000	AMS 0.6 μ m CMOS	10	ALICE
CP16	1999	AMS 0.8 μ m CMOS	1 x 2.5	Low noise amp
PHAROS	1999	AMS 0.8 μ m BiCMOS	3 x 5.4	Medical Imaging
PHANTIC	1998	AMS 0.8 μ m CMOS	1.6	Pulse Height Analyzer
CHROMATIC	1997	ES2 0.7 μ m CMOS	6.4 x 5.3	Medical Imaging
PMChip	1993	ES2 1.0 μ m CMOS	8.2 x 9.2	NA48



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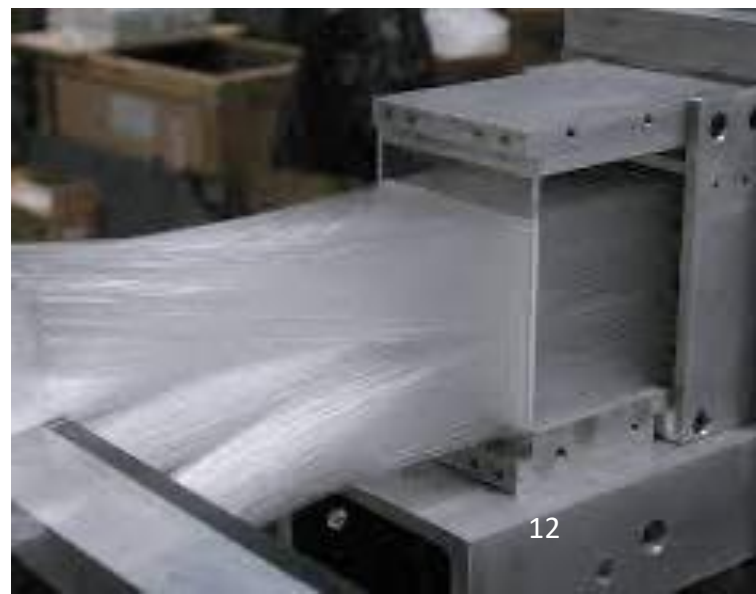
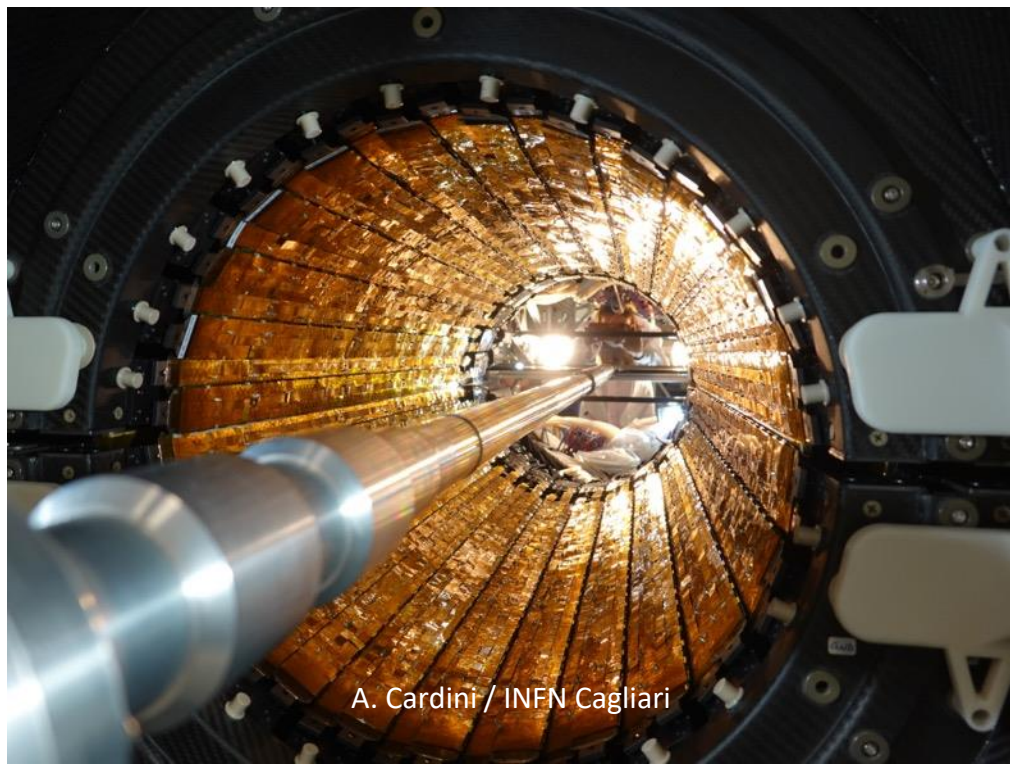
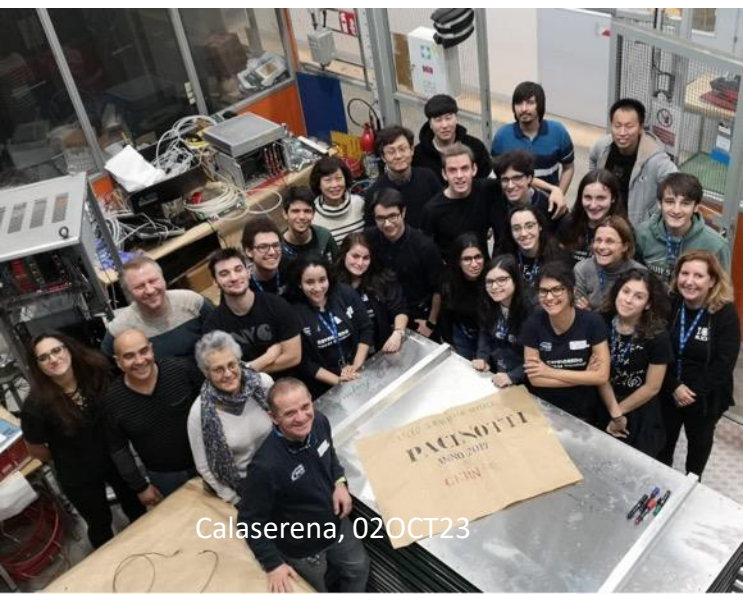


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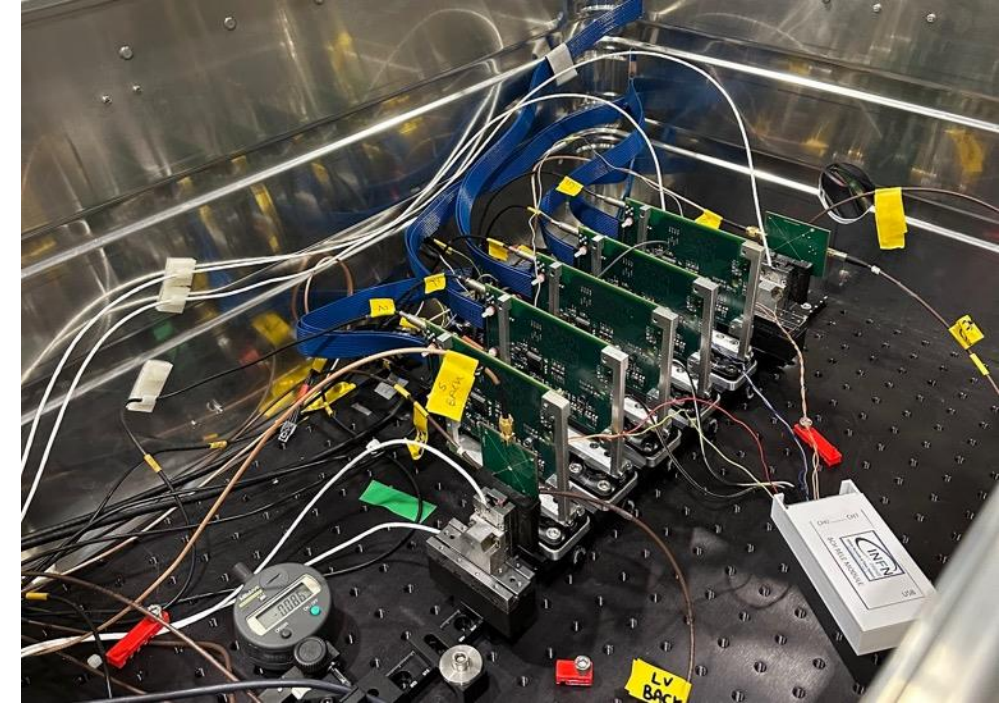
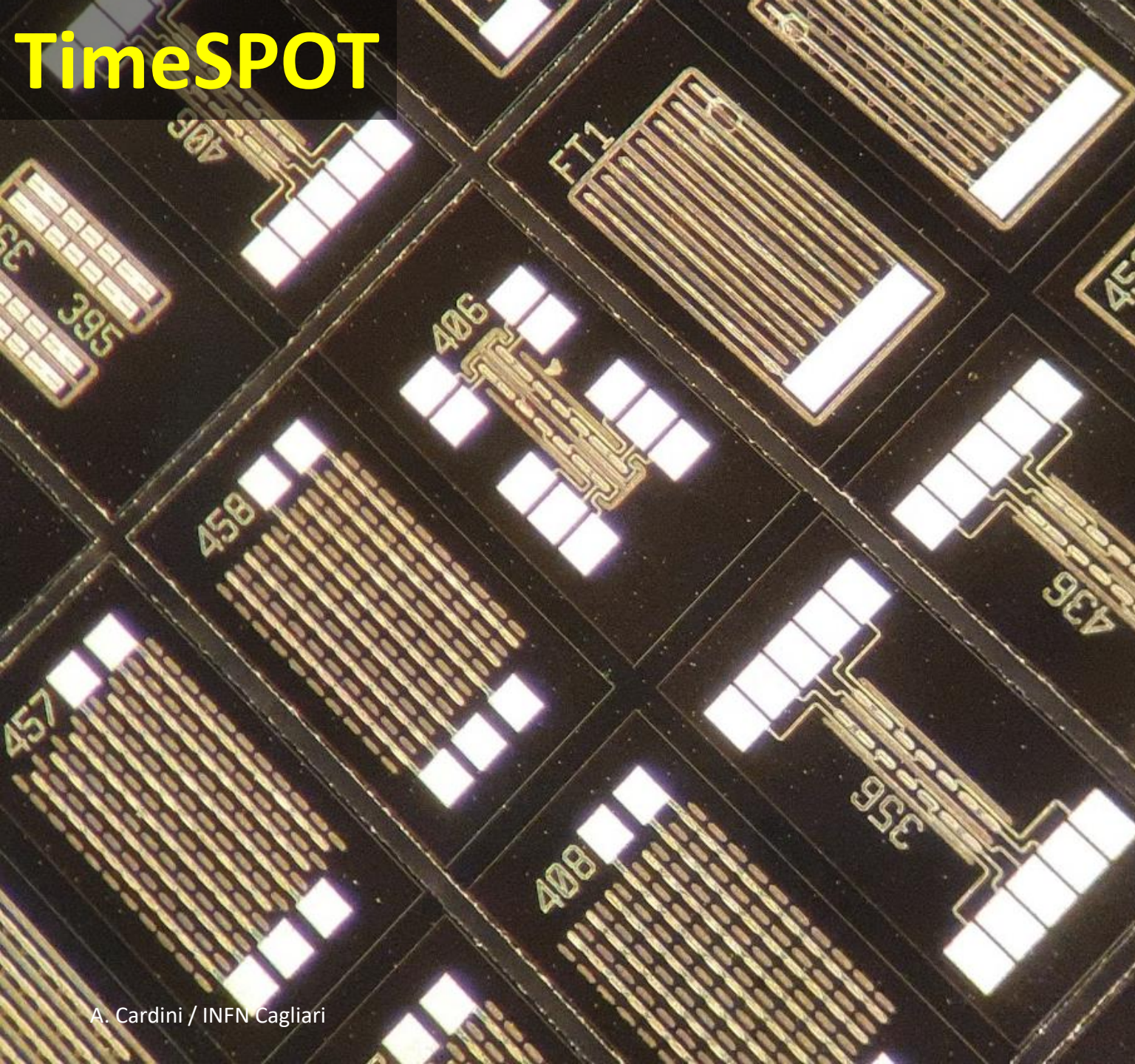




ALICE



TimeSPOT



CUORE @ LNGS



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ARIA / DARKSIDE



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Einstein Telescope



CALASERENA VILLAGE / SARDEGNA



1 - CAMERA

2 - RISTORANTE CENTRALE

3 - RISTORANTE IL GUSTO

4 - CUCINA BABY/BIBERONERIA

5 - ANFITEATRO

6 - PIAZZETTA

7 - CAMPI SPORTIVI

8 - CAMPI TENNIS

9 - AREA FITNESS

10 - PISCINA SCIVOLI

11 - PISCINA NUOTO

12 - MINICLUB IL SERENINO

13 - PARCO GIOCHI BIMBI

14 - VIALETTA

15 - SPIAGGIA

Some practical infos

- At the main restaurant:
 - Breakfast 07:30-10:00
 - Lunch 12:30-14:00
 - Dinner 19:30-21:00
- This evening @19:00 → Welcome drink
- Wednesday @14:00 → Social activities
- Thursday @20:30 → Conference Dinner
- Conference Photo → more info to come
- Need other info? Get in touch with our session managers or with Kassiopea staff



Social Activities

- If you have not registered for the social activity check with Marina at the main reception



Welcome to TWEPP 2023 & enjoy the Conference

