

**Joint Experiment Missions-Extreme Universe Space Observatory**

# **Report JEM-EUSO Analysis Meetings**

**M. Bertaina – Univ. & INFN Torino  
37<sup>th</sup> JEM-EUSO Coll. Meeting,  
Paris June 6<sup>th</sup> 2025**

# Since January 2024

- Meeting 1: Mini-EUSO & EUSO-TA
- Meeting 2: EUSO-SPB2, OffLine & ESAF

EUSO-SPB1, TUS, K-EUSO, POEMMA, EUSO-Balloon, OffLine, ESAF, PBR, EUSO-SPB2 can jump in the agenda at anytime if there is a request for presentation at the meeting but not sessions reserved by default.

# New propositions since a couple of years

- **Record the meetings for those who can not attend:**

[https://drive.google.com/drive/folders/1w\\_wR19zdIC4tW55G9uJGDROwoEP8QNa-?usp=sharing](https://drive.google.com/drive/folders/1w_wR19zdIC4tW55G9uJGDROwoEP8QNa-?usp=sharing)

- Each speaker should provide take home message in the second slide. This will be part of the minutes.
- **We strongly remind the speakers to upload the presentations. Still many presenters do not do it! This is not good practice!**

eting\_20250417  
**2025-04-12**  
• Analysis meetings  
**2025-03-23**  
• [Mini-EUSO Database](#)  
**2025-03-14**  
• Analysis meetings/Meeting\_20250313  
**2025-03-13**  
• [Firmware Upgrade in Rome](#)  
**2025-03-12**  
• [EUSO-TA2](#)  
**2025-02-14**  
• Analysis meetings/Meeting\_20250213  
**2025-02-13**  
• [Mini-EUSO](#)  
**2025-02-07**  
• Analysis meetings/Meeting\_20250206  
**2025-02-04**  
• Analysis meetings/Meeting\_20250116  
**2024-11-07**  
• Analysis meetings/Meeting\_20241107  
**2024-10-11**  
• Analysis meetings/Meeting\_20241010  
**2024-09-05**  
• Analysis meetings/Meeting\_20240905  
**2024-08-03**  
• Analysis meetings/Meeting\_20240801  
**2024-07-09**  
• Analysis meetings/Meeting\_20240708  
**2024-04-19**  
• Analysis meetings/Meeting\_20240418  
**2024-04-10**  
• [EUSO-SPB2/APS2024Meeting](#)  
• [EUSO-SPB2](#)  
**2024-03-30**  
• Analysis meetings/Meeting\_20240328  
**2024-03-12**  
• [EUSO-TA2 Campaigns](#)

## Next Analysis meeting: April 17th 2025, 12:00 UTC --- Mini-EUSO and EUSO-TA <sup>†</sup>

Zoom link: <https://columbiauniversity.zoom.us/j/98383885979?pwd=Ktu2Cwxne8rWzbaqGqnoOBL9bz3f1W.1>

From January 2023 records of the Analysis Meetings can be found at: [https://drive.google.com/drive/folders/1w\\_wR19zdIC4tW55G9uJGDROwoEP8QNa?usp=sharing](https://drive.google.com/drive/folders/1w_wR19zdIC4tW55G9uJGDROwoEP8QNa?usp=sharing)

### EUSO-SPB2, [OffLine](#) and ESAF <sup>†</sup>

- [Meeting 2023-01-12](#)
- [Meeting 2023-02-09](#)
- [Meeting 2023-03-09](#)
- [Meeting 2023-04-13](#)
- [Meeting 2023-05-18](#)
- [Meeting 2023-07-06](#)
- [Meeting 2023-09-26](#)
- [Meeting 2023-10-24](#)

### Mini-EUSO and EUSO-TA <sup>†</sup>

- [Meeting 2023-01-26](#)
- [Meeting 2023-02-23](#)
- [Meeting 2023-03-23](#)
- [Meeting 2023-05-04](#)
- [Meeting 2023-06-29](#)
- [Meeting 2023-09-07](#)
- [Meeting 2023-10-05](#)
- [Meeting 2023-12-21](#)
- [Meeting 2024-01-25](#)
- [Meeting 2024-02-22](#)
- [Meeting 2024-03-28](#)
- [Meeting 2024-04-18](#)
- [Meeting 2024-07-08](#)
- [Meeting 2024-08-01](#)
- [Meeting 2024-09-05](#)
- [Meeting 2024-10-10](#)
- [Meeting 2024-11-07](#)
- [Meeting 2025-01-16](#)
- [Meeting 2025-02-13 - Yamato](#)
- [Meeting 2025-02-13](#)
- [Meeting 2025-03-13](#)
- [Meeting 2025-04-17](#)

Proposed next meeting:  
Thursday July 3rd 12:00 UTC

### EUSO-Balloon, EUSO-SPB1, EUSO-SPB2, POEMMA, [OffLine](#) and ESAF <sup>†</sup>

- [Meeting 2020-07-16](#)

# Comments:

Long discussions in Mini-EUSO sessions

Activity has re-started in EUSO-TA2 from the hardware point of view

Previous Balloon meetings stopped, PBR started occasionally

OffLine: report session. There are parallel meetings on going weekly.

New meetings to discuss M-EUSO and C-EUSO

## Propositions:

**a) On July 3<sup>rd</sup> let's have a rehearsal or at least a sketch of the material for the expected oral/poster presentations at ICRC**

**b) I propose to add a new monthly meeting dedicated to M-EUSO and also to C-EUSO (i.e. Thursday July 10<sup>th</sup> @ 14h00 UTC – crosscheck to avoid superposition with PBR analysis session going on biweekly). If it becomes a too short meeting we can go back to one single meeting per month.**

**PLEASE UPLOAD PRESENTATIONS OF YOUR TALKS. IT'S VERY IMPORTANT MATERIAL TO BE VIEWED AND USED BY OTHER COLLABORATORS**



# A dream list of papers with Mini-EUSO

PAST:

a) today's paper: overview of Mini-EUSO in space: Unique instrument of interdisciplinary study (PUBLISHED)

NOW after checking data in the pouch:

b) NIM-A: Trigger paper (PUBLISHED)

c) calibration paper (PUBLISHED)

d) Astroparticle Physics: first observations related to UHECRs from space

e) JCAP: Mini-EUSO first results in view of TUS event

f) TLE journal: First TLE events (submitted!!)

g) Meteor journal: First meteor observation (paper in internal review) + 1 interstellar in preparation

h) UV maps + Data in brief (2 papers)

i) Cloud journal: First cloud detection

j) SQM journal: First search of nuclearite events

k) IEEE-JSTAR: Mini-EUSO measurements related to space debris detection

m) Oceanographic journal: watching the ocean in UV

1 Year from now:

n - z) More scientific papers on all above with (semi)-conclusive results

In parallel: attempt of joint papers with ASIM, Altea, space-ground observations (ground-based observed meteors , Auger TLE and UV background, TA/EUSO-TA, TUS many)

## ANALYSIS IS PROGRESSING

Something will be published on Advances in Space Research  
(COSPAR presentations)

THANK YOU