

24th JEM-EUSO International Meeting

December 3-7, 2018

Konan University

Kobe, Japan

Monday, December 3

Meeting at Hamamatsu Photonics (all day)

Schedule of delivery of PMTs for SPB2
Schedule of K-EUSO
Measurements of delivered PMTs
Discussion

In parallel

Meeting at Konan University

Analysis group meeting 14:00 - 19:00

Coordinator: M. Bertaina

Introduction: M. Bertaina: 14:00 - 14:15

EUSO-SPB: 14:15 - 15:45

Expected #. of events
Cloud impact
Calibration & Expected #. of events
IR-Camera Analysis
Modis Images and WRF modeling
Satellite data
Event search

K. Shinozaki
K. Shinozaki
J. Eser
A. Anzalone/ A. Bruno
S. Briz, S. Monte
M. Manfrin/M. Bertaina
A. Diaz, M. Vrabel

Mini-EUSO: 15:45 - 16:45

Auger & Mini-EUSO
Auger CLF shots for Mini-EUSO
Mini-EUSO debris & GLARE-X calibration sources

M. Bertaina
K. Shinozaki:
H. Miyamoto

EUSO-Balloon: 16:45 - 17:15

Performance of the EUSO-Balloon optics
Status of summary paper

A. Diaz
M. Bertaina

EUSO-TA: 17:15-17:30

UV Nightglow Modulation

Frej-Eric Emmoth

OffLine: 17:15 - 18:15

OffLine demonstration session

J. Eser

ESAF simulations: 18:15 - 19:00

K-EUSO, Mini-EUSO, next analysis meeting, etc...

Tuesday, December 4

08:30-09:00 **Registration**

09:00-09:15 **Welcome**

Session 1: Mission Status and Programmatic aspects

09:15-09:45 Mission Status Overview

P. Picozza

09:45-09:55 Report from Japan

T. Ebisuzaki

09:55-10:05 Report from Russia

P. Klimov

10:05-10:15 Report from USA

A. Olinto

10:15-10:45 Report from other countries

PIs

10:45-11:00 *Coffee Break*

Session 2: POEMMA (from 11:00 to 12:30)

Coordinator: A. Olinto

11:00 – 11:30 POEMMA overview

A. Olinto

11:30 – 12:00 POEMMA design

M. Christl

12:00 – 12:30 POEMMA science results

J. Krizmanic

12:30 – 13:00 Discussion

13:00-14:30 *Lunch*

Session 3: Space Debris

14:30 – 15:15 Space debris detection

T. Ebisuzaki

Session 4: K-EUSO (from 14:30 to 18:00)

Coordinator: P. Klimov

15:15-15:35 Prospects of testing a minimal model for extragalactic
cosmic rays and neutrinos with K-EUSO

M. Zotov

15:35-15:45 Possibility of GRB measurements with orbital
UHECR detectors

M. Zotov

15:45-16:05 First estimation of the trigger efficiency curve and event
reconstruction quality of K-EUSO using ESAF

F. Fenu

16:05-16:35 K-EUSO status and conceptual design progress

P. Klimov

K-EUSO mechanics

K-EUSO models development and manufacturing

ISS integration and problem of launcher

16:35-17:00 *Coffee Break*

17:00-17:15 Front-end electronics. New EC-unit and PMT tests in APC

G. Prévôt/S. Blin

17:15-17:30 K-EUSO digital data processing system (PDM-DP, MCDP)

A. Belov

17:30-17:45 Discussion

17:45-18:30 Discussion on K-EUSO Collaboration

ESA Topical Team

ESA-Roscosmos

Wednesday, December 5

Session 5: EUSO-SPB2 (from 09:00 to 12:30)

Coordinator: L. Wiencke

09:00 - 09:15	SPB2– Critical Issues	L. Wiencke
09:15 - 09:30	Simulations	J. Eser*
09:35 - 09:50	IR analysis and Clouds	A. Anzalone
09:50 - 10:00	Stars (short)	Plebaniak
10:00 - 10:15	Optics	Reardon*
10:15 - 10:30	Telescope Mechanical	Finch*/Wiencke
10:30 - 10:45	Telescope Testing	Kungle*/Bachman*
		Huelett*
10:45 - 11:00	Gondola	Christl*
11:00 11:15 Coffee		
11:15 11:35	Cherenkov Camera Overview	Otte*
11:35 11:50	4x4 mm design option	Kuznetsov*
11:50 12:10	Fluorescence MAPMTs, ECs	Guillaume
12:10 12:30	Architecture & HK & Zynq	Osteria/Belov*

*Via Remote Connection

12:30-14:00 Lunch

Session 6: Current data analysis (from 14:00 to 16:00)

Coordinator: M. Bertaina

14:00 – 14:15	Overview and results from the Global Analysis Group	M. Bertaina
14:15 – 14:30	Overview of Mini-EUSO on going simulations & analyses	F. Bisconti
14:30 – 14:45	Overview of the analysis results from EUSO-TA	L. Piotrowski
14:45 – 15:00	Overview of the analysis results from EUSO-Balloon	S. Mackovjac
15:00 - 15:20	Overview of the analysis results from EUSO-SPB1	K.Shinozaki/L.Wiencke
15:20 – 15:40	Space Debris simulations and measurements	R. Bonino

TOUR

16:30 Leave meeting site

17:00-18:00 Visit sake brewery

18:00-20:00 Dinner at the sake brewery restaurant

20:00-20:30 Move to Sannomiya hotel area

Thursday, December 6

Session 7: Mini-EUSO (from 09:00 to 13:00)

Coordinators: M. Casolino / P. Klimov

Introduction, Status, schedule

Optics performance

Mechanics

PDM-DP (Zynq)

Data Acquisition SW

Cameras

HVPS & Switch

Triggers

M. Casolino / P. Klimov

Y. Takizawa / N. Sakaki

M. Ricci

P. Klimov

F. Capel

S. Turriziani

J. Szabelsk

F. Capel/ M. Bertaina

10:30-10:50 *Coffee Break*

Laser

Calibration

Quicklook and data analysis

Qualification test in Italy and acceptance test in Moscow

Mission planning and commissioning phase

Discussion

L. Wiencke

P. Gorodetzky

L. Piotrowski

13:00-14:30 *Lunch*

Session 8: EUSO-TA (from 14:30 to 16:00)

Coordinator: M. Casolino

EUSO-TA2: science objectives, logistics status of integration

Analysis

Automatization / additional hardware / Shift planning

Meteor observations with CMOS camera

Trigger

Field test in Japan

Discussion, planning, resources, cost estimation

M. Casolino

L. Piotrowski /F. Bisconti

L. Piotrowski

F. Kajino

M. Battisti

16:00-16:20 *Coffee Break*

EC+PI's Meeting (from 16:20 to 18:30)

Status of the collaboration

ESA Topical Team

Financial problems

Next Collaboration Meeting

Friday, December 7

Session 9: Analysis meeting (from 09:00 to 12:30)

Coordinator: M. Bertaina

Status of AMON Program
Progress with Offline developments
Progress with ESAF developments
EUSO-TA Star Analysis
Mini-EUSO & Auger

S. Mackovjac
J. Eser
F. Fenu
Z. Plebaniak
M. Bertaina

10:30-11:00 *Coffee Break*

12:30 – 14:00 *Lunch*

Session 10: Conclusions (from 14:00)

Coordinator: P. Picozza

Publications in progress
Renewal/update of the PCC web pages
Next Collaboration Meeting
Final decisions

M. Bertaina
A. Haungs