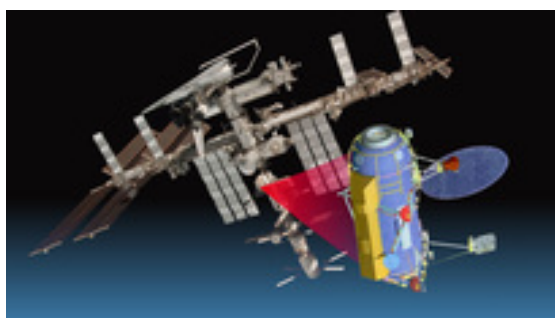


The 27th JEM-EUSO International Collaboration Meeting, Moscow, 2020



Report of Contributions

Contribution ID: 2

Type: **not specified**

K-EUSO overview and current status

Presenter: KLIMOV, Pavel (SINP MSU)

Session Classification: K-EUSO

Track Classification: K-EUSO

Contribution ID: 4

Type: **not specified**

Identifying instant track-like flashes in TUS data with neural networks

Primary authors: SOKOLINSKIY, Denis; Dr ZOTOV, Mikhail (SINP MSU)

Presenter: SOKOLINSKIY, Denis

Session Classification: TUS

Track Classification: TUS

Contribution ID: 5

Type: **not specified**

UV pulsations in aurora region measured by TUS

Primary authors: KLIMOV, Pavel; SIGAEVA, Kseniya

Presenter: KLIMOV, Pavel

Session Classification: TUS

Track Classification: TUS

Contribution ID: 6

Type: **not specified**

Status of air shower search in EUSO-SPB1 data

Summary of the current status of the air shower search - methods, results.

Primary author: VRÁBEL, Michal

Presenter: VRÁBEL, Michal

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: 7

Type: **not specified**

CT Main Electronics Box. Development status.

Main Electronics Box (MEB) of the EUSO-SPB2 Cherenkov Telescope (CT) contains all electronic components of the CT data acquisition system. It will be mounted in a proximity to the focal plane unit to minimize cable length. Design status of all MEB components will be presented. Parameters of the designed High Voltage Power Supply (HVPS) and thermal constraints will be described. Possible ways to mitigate elevated power dissipation and to achieve optimal performance of the CT working at intense levels of the Night Sky Background will be presented.

Primary author: Mr KUZNETSOV, Evgeny (UAHuntsville)

Presenter: Mr KUZNETSOV, Evgeny (UAHuntsville)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 8

Type: **not specified**

Report from Russia

Primary author: KLIMOV, Pavel (SINP MSU)

Presenter: KLIMOV, Pavel (SINP MSU)

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: 9

Type: **not specified**

Hunting for ANITons with EUSO-SPB2

The ANITA Collaboration has reported the detection of two upward-propagating extensive air showers emerging from well below the horizon with energies ~ 500 PeV. While in principle this type of event has been anticipated as a result of astrophysical τ -neutrinos converting to τ -leptons during Earth passage, the origin of ANITA events remains intriguing because the observed exit angles create a tension with the standard model (SM) neutrino-nucleon interaction cross section. Actually, under conservative extrapolations of SM physics, there is no particle that can propagate through the Earth with a probability $p > 10^{-6}$ at these energies and exit angles. Leaving aside systematic effects that may be at play, any other possible explanation of these exotic events (nicknamed ANITons) would require some kind of new physics beyond the SM. In this talk we will investigate the feasibility to search for ANITons using the the second generation Extreme Universe Space Observatory on a Super-Pressure Balloon (EUSO-SPB2) mission, which has been approved by NASA for a long duration flight in 2022.

Primary authors: ANCHORDOQUI, Luis; BHATTACHARYA, Atri; KRIZMANIC, John; OLINTO, Angela; RENO, Mary Hall; SARCEVIC, Ina; VENTERS, Tonia

Presenter: ANCHORDOQUI, Luis

Session Classification: EUSO-SPB2

Track Classification: POEMMA

Contribution ID: **10**

Type: **not specified**

Searching for superheavy dark matter with POEMMA

I will discuss the sensitivity of POEMMA to search for extreme energy photons originating in the decay superheavy dark matter in the Galactic halo.

Primary author: ANCHORDOQUI, Luis

Presenter: ANCHORDOQUI, Luis

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: 11

Type: **not specified**

EUSO-SPB2 Solar Power System

Primary author: ADAMS, Jim (UAHuntsville)

Presenter: ADAMS, Jim (UAHuntsville)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 12

Type: **not specified**

US Report JEM-EUSO June 2020 meeting

Primary author: Prof. OLINTO, Angela V. (The University of Chicago)

Presenter: Prof. OLINTO, Angela V. (The University of Chicago)

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: 13

Type: **not specified**

Sweden status JEM-EUSO 15 June 2020

Primary author: Prof. CHRISTER FUGLESANG, Christer

Presenter: Prof. CHRISTER FUGLESANG, Christer

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: 14

Type: **not specified**

Report from Slovakia

Primary author: Dr BOBIK, Pavol (IEP SAS)

Presenter: Dr BOBIK, Pavol (IEP SAS)

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: 15

Type: **not specified**

General Overview of data analysis

Primary author: BERTAINA, Mario (Univ.Torino & INFN)

Presenter: BERTAINA, Mario (Univ.Torino & INFN)

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: 17

Type: **not specified**

Status and overview of France activities

Primary author: PARIZOT, Etienne (APC, Université de Paris)

Presenter: PARIZOT, Etienne (APC, Université de Paris)

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: **18**

Type: **not specified**

JEM-EUSO ITALY: Status and Activities

Primary author: Dr RICCI, Marco (INFN - Frascati Nat'l Labs)

Presenter: Dr RICCI, Marco (INFN - Frascati Nat'l Labs)

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: 19

Type: **not specified**

Atmospheric Sciences for MiniEUSO experiments, and applications of MiniEUSO for Cloud detection

The real-time weather analysis of physical quantities that could be interesting for MiniEUSO data analysis. Here we discuss the operational chain to retrieve, analyse and plot some atmosphere related quantities that could be associated with the MiniEUSO session data as metadata.

Moreover, we discuss the opportunity to detect cloud pattern and cloud cover directly from the MiniEUSO sensors, and how to test them against different satellite images.

Primary authors: GOLZIO, Alessio (Università degli Studi di Torino); Dr MANFRIN, Massimiliano (Department of Physics, University of Turin); Dr CREMONINI, Roberto (ARPA Piemonte)

Presenter: GOLZIO, Alessio (Università degli Studi di Torino)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: **20**

Type: **not specified**

Level1 software and processing chain

Tuesday, 16 June 2020 10:40 (20 minutes)

Primary author: Dr MARCELLI, Laura

Presenter: Dr MARCELLI, Laura

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 21

Type: **not specified**

Mini-EUSO CPU software

Primary author: CAPEL, Francesca (KTH)

Presenter: CAPEL, Francesca (KTH)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 22

Type: **not specified**

Mini-EUSO optics

Primary authors: Dr SAKAKI, Naoto (RIKEN); Dr TAKIZAWA, Y (RIKEN)

Presenter: Dr SAKAKI, Naoto (RIKEN)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 23

Type: **not specified**

Mini-EUSO PSF from stars

Primary author: Dr PLEBANIAK, Zbigniew (University of Turin, INFN, Turin, Italy)

Presenter: Dr PLEBANIAK, Zbigniew (University of Turin, INFN, Turin, Italy)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 24

Type: **not specified**

Mini-EUSO FirmWare

Problems and possible improvements

Primary author: Dr BELOV, Alexander (SINP MSU)

Presenter: Dr BELOV, Alexander (SINP MSU)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 25

Type: **not specified**

Event X reconstruction

Primary author: SHARAKIN, Sergei (SINP MSU)

Presenter: SHARAKIN, Sergei (SINP MSU)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 26

Type: **not specified**

Mission Status Overview

Primary author: Prof. PIERGIORGIO, Picozza

Presenter: Prof. PIERGIORGIO, Picozza

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: 27

Type: **not specified**

Online search for meteors and correlation with ground observations

Primary authors: Dr BARGHINI, Dario (University of Turin - Department of Physics); Dr MIYAMOTO, Hiroko (University of Turin/INFN); Ms BERTONE, Sara (University of Turin - Department of Physics); Prof. BERTAINA, Mario Edoardo (University of Turin - Department of Physics & INFN)

Presenter: Dr BARGHINI, Dario (University of Turin - Department of Physics)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 28

Type: **not specified**

Automatic online L1 trigger analysis

Primary author: BATTISTI, Matteo (Università di Torino, INFN Torino)

Presenter: BATTISTI, Matteo (Università di Torino, INFN Torino)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 29

Type: **not specified**

Mini-EUSO and ASIM: Possibilities for simultaneous detection of atmospheric events

Primary author: BATTISTI, Matteo (Università di Torino, INFN Torino)

Presenter: BATTISTI, Matteo (Università di Torino, INFN Torino)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: **30**

Type: **not specified**

EUSO-SPB2 Optics Design Status

Primary author: REARDON, Patrick (U. of Alabama in Huntsville, Center for Applied Optics)

Presenter: REARDON, Patrick (U. of Alabama in Huntsville, Center for Applied Optics)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 31

Type: **not specified**

POEMMA 360: Progression to current optical design

Primary author: REARDON, Patrick (U. of Alabama in Huntsville, Center for Applied Optics)

Presenter: REARDON, Patrick (U. of Alabama in Huntsville, Center for Applied Optics)

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: 32

Type: **not specified**

EUSO-SPB2 Introduction

Primary author: OLINTO, Angela (The University of Chicago)

Presenter: OLINTO, Angela (The University of Chicago)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 33

Type: **not specified**

Mirror Fabrication, Testing and Schedule

Primary author: PECH, Miroslav (Institute of Physics of the Academy of Sciences of the Czech Republic)

Presenter: PECH, Miroslav (Institute of Physics of the Academy of Sciences of the Czech Republic)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 34

Type: **not specified**

SPB2 Software: Outlook & upcoming milestones

Primary author: CAFAGNA, Francesco (INFN, Bari)

Presenter: CAFAGNA, Francesco (INFN, Bari)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 35

Type: **not specified**

Cherenkov and Fluorescence Signals from anomalous ANITA events

Primary author: KRIZMANIC, John (UMBC/CRESST/NASA/GSFC)

Presenter: KRIZMANIC, John (UMBC/CRESST/NASA/GSFC)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 36

Type: **not specified**

Telescopes Mechanical

Primary author: FINCH, William (Yitz) (Colorado School of Mines / Physics Department)

Presenter: FINCH, William (Yitz) (Colorado School of Mines / Physics Department)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 37

Type: **not specified**

EUSO SPB2 Fluorescence Telescope Trigger Analysis

Primary author: Mr FILIPPATOS, George (Colorado School of Mines)

Presenter: Mr FILIPPATOS, George (Colorado School of Mines)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: **38**

Type: **not specified**

Status of the EUSO-SPB2 software task

Primary author: SARAZIN, Fred (Colorado School of Mines)

Presenter: SARAZIN, Fred (Colorado School of Mines)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 39

Type: **not specified**

UCIRC2 Status Update

Primary author: DIESING, Rebecca (University of Chicago)

Presenter: DIESING, Rebecca (University of Chicago)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 40

Type: **not specified**

Science and Priority Group

Primary author: ESER, Johannes

Presenter: ESER, Johannes

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 41

Type: **not specified**

Optical Cherenkov Signals for EUSO-SPB2

Primary author: CUMMINGS, Austin (Gran Sasso Science Institute)

Presenter: CUMMINGS, Austin (Gran Sasso Science Institute)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 42

Type: **not specified**

Battisti - Moscow General meeting 2020 - SPB2 fluorescence trigger logic hardware implementation.pdf

Primary author: Mr MATTEO, Battisti (Torino University - INFN Torino)

Presenter: Mr MATTEO, Battisti (Torino University - INFN Torino)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 43

Type: **not specified**

Cherenkov Camera Mechanics and (SIAB) Update

Primary authors: GAZDA, Eliza (Georgia Institute of Technology); WANG, Andrew

Presenters: GAZDA, Eliza (Georgia Institute of Technology); WANG, Andrew

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 44

Type: **not specified**

Cherenkov Telescope: DAQ And Trigger

Primary authors: BAGHERI, Mahdi (Georgia Institute of Technology); OTTE, Nepomuk (Georgia Institute of Technology); GAZDA, Eliza (Georgia Institute of Technology); ROMERO MATAMALA, Oscar (Georgia Institute of Technology); JUDD, Eleanor (UC Berkeley - Space Sciences Laboratory); KUZNETSOV, Evgeny (UAH); CHRISTL, mark

Presenter: BAGHERI, Mahdi (Georgia Institute of Technology)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 45

Type: **not specified**

Cherenkov Telescope: Slow Control and Interface with Gondola

Primary authors: BAGHERI, Mahdi (Georgia Institute of Technology); OTTE, Nepomuk (Georgia Institute of Technology); GAZDA, Eliza (Georgia Institute of Technology); ROMERO MATAMALA, Oscar (Georgia Institute of Technology); JUDD, Eleanor (UC Berkeley - Space Sciences Laboratory); KUZNETSOV, Evgeny (UAH); CHRISTL, mark

Presenter: BAGHERI, Mahdi (Georgia Institute of Technology)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 46

Type: **not specified**

Tau neutrino exposure for Target of Opportunity observations with POEMMA

Primary author: RENO, Hallsie (University of Iowa)

Presenter: RENO, Hallsie (University of Iowa)

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: 47

Type: **not specified**

UHECR Anisotropy Studies with POEMMA

Primary author: VENTERS, Tonia (NASA GSFC)

Presenter: VENTERS, Tonia (NASA GSFC)

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: 48

Type: **not specified**

Astrophysical Implications of POEMMA ToO Observations

Primary author: VENTERS, Tonia (NASA GSFC)

Presenter: VENTERS, Tonia (NASA GSFC)

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: 49

Type: **not specified**

EUSO-SPB2 Gondol Update

Primary author: CHRISTL, mark

Presenter: CHRISTL, mark

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 50

Type: **not specified**

proton+air cross section with POEMMA

Primary authors: UNGER, Michael (KIT); RENO, Hallsie (University of Iowa); ULRICH, Ralf (KIT)

Presenter: UNGER, Michael (KIT)

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: 51

Type: **not specified**

POEMMA: UHECR spectrum & Xmax Simulation Results

Primary author: KRIZMANIC, John (UMBC/CRESST/NASA/GSFC)

Presenter: KRIZMANIC, John (UMBC/CRESST/NASA/GSFC)

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: 52

Type: **not specified**

FT Overview

Primary author: OSTERIA, Giuseppe (INFN Sezione di Napoli)

Presenter: OSTERIA, Giuseppe (INFN Sezione di Napoli)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 53

Type: **not specified**

K-EUSO Optical System: Midi-EUSO design

Primary author: SHARAKIN, Sergei (SINP MSU)

Presenter: SHARAKIN, Sergei (SINP MSU)

Session Classification: K-EUSO

Track Classification: K-EUSO

Contribution ID: 54

Type: **not specified**

Mini-EUSO general talk

Primary author: CASOLINO, Marco

Presenter: CASOLINO, Marco

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 55

Type: **not specified**

Fluorescence Telescope data processor

Primary authors: OSTERIA, Giuseppe (INFN Sezione di Napoli); SCOTTI, Valentina (Università degli Studi di Napoli Federico II - INFN Sezione di Napoli); PERFETTO, Francesco (INFN sezione di Napoli)

Presenter: OSTERIA, Giuseppe (INFN Sezione di Napoli)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 56

Type: **not specified**

Lens manufacturing (schedule and costs estimation)

Primary author: TAKIZAWA, Yoshiyuki (RIKEN)

Presenter: TAKIZAWA, Yoshiyuki (RIKEN)

Session Classification: K-EUSO

Track Classification: K-EUSO

Contribution ID: 57

Type: **not specified**

K-EUSO Lens optics in ESAF

Primary authors: SAKAKI, Naoto (RIKEN); TAKIZAWA, Yoshiyuki (RIKEN)

Presenter: SAKAKI, Naoto (RIKEN)

Session Classification: K-EUSO

Track Classification: K-EUSO

Contribution ID: 58

Type: **not specified**

Reconstruction of EAS-like events

One of the most mysterious events measured by the TUS detector are the so-called EAS-like events which are events with a spatio-temporal pattern typical for the EAS fluorescence. Here we present the procedure to reconstruct these events and also discuss their possible origin.

Primary authors: RUIZ HERNANDEZ, Oliver Isac; SHARAKIN, Sergei (SINP MSU)

Presenter: RUIZ HERNANDEZ, Oliver Isac

Session Classification: TUS

Track Classification: TUS

Contribution ID: 59

Type: **not specified**

POEMMA Overview

Primary author: OLINTO, Angela (The University of Chicago)

Presenter: OLINTO, Angela (The University of Chicago)

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: **60**

Type: **not specified**

Corrector Plate Status & Schedule

Primary author: TAKIZAWA, Yoshiyuki (RIKEN)

Presenter: TAKIZAWA, Yoshiyuki (RIKEN)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: **61**

Type: **not specified**

Machine learning applied to debris detection and tracking

Primary author: MONTANARO, Antonio

Presenter: MONTANARO, Antonio

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: **62**

Type: **not specified**

Meteors and interstellar meteors

Brief review on meteor and interstellar meteors with examples taken from the italian PRISMA fireball network

Primary authors: GARDIOL, Daniele (INAF-Osservatorio Astrofisico di Torino); BARGHINI, Dario (INAF-Osservatorio Astrofisico di Torino)

Presenter: GARDIOL, Daniele (INAF-Osservatorio Astrofisico di Torino)

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: **63**

Type: **not specified**

EUSO-SPB1 exposure paper

Primary author: SHINOZAKI, Kenji

Presenter: SHINOZAKI, Kenji

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: 64

Type: **not specified**

DIMS Project : Present Status and Future Prospects

Primary author: KAJINO, Fumiyoishi (Konan University)

Presenter: KAJINO, Fumiyoishi (Konan University)

Session Classification: DIMS, EUSO-TA

Track Classification: Generic reports

Contribution ID: 65

Type: **not specified**

Speakers Office and Publications

Primary authors: HAUNGS, Andreas (KIT); BERTAINA, Mario (Univ. Torino & INFN)

Presenter: HAUNGS, Andreas (KIT)

Session Classification: Speaker Office and Publications, Concluding Remarks

Track Classification: Generic reports

Contribution ID: **66**

Type: **not specified**

EUSO-TA with stars

Primary authors: PLEBANIAK, Zbigniew (Torino University, INFN, Italy); PRZYBYLAK, Marika (National Centre for Nuclear Research, Poland)

Presenter: PLEBANIAK, Zbigniew (Torino University, INFN, Italy)

Session Classification: DIMS, EUSO-TA

Track Classification: EUSO-TA

Contribution ID: 67

Type: **not specified**

Mini-EUSO auxillary data

Primary author: SHINOZAKI, Kenji

Presenter: SHINOZAKI, Kenji

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: **68**

Type: **not specified**

Mini-EUSO flash (KS)

Primary author: SHINOZAKI, Kenji

Presenter: SHINOZAKI, Kenji

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: **69**

Type: **not specified**

POEMMA 360 implications

Primary author: KRIZMANIC, John (UMBC/CRESST/NASA/GSFC)

Presenter: KRIZMANIC, John (UMBC/CRESST/NASA/GSFC)

Session Classification: POEMMA

Track Classification: POEMMA

Contribution ID: 70

Type: **not specified**

Debris projects in Japan

Primary authors: SAKAKI, Naoto (RIKEN); EBISUZAKI, Toshikazu (RIKEN); TAKIZAWA, Yoshiyuki (RIKEN); CASOLINO, Marco (RIKEN, INFN)

Presenter: SAKAKI, Naoto (RIKEN)

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: 71

Type: **not specified**

Poland: Participation in JEM-EUSO

Primary author: SZABELSKI, Jacek (NCBJ-Łódź-Poland)

Presenter: SZABELSKI, Jacek (NCBJ-Łódź-Poland)

Session Classification: Mission status overview, national reports, overview of data analysis, an invited lecture by Prof. T. Tajima

Track Classification: Generic reports

Contribution ID: 72

Type: **not specified**

HV Status and Schedule (SPB2-EUSO)

Primary authors: LEWANDOWSKI, Ryszard (NCBJ); MARSZAŁ, Włodzimierz (NCBJ); PRZYBYLAK, Marika (NCBJ); SZABELSKI, Jacek (NCBJ)

Presenter: SZABELSKI, Jacek (NCBJ)

Session Classification: EUSO-SPB2

Track Classification: EUSO-SPB2

Contribution ID: 73

Type: **not specified**

Convolutional LSTM For Data Classification

Primary author: FILIPPATOS, George (Colorado School of Mines)

Presenter: FILIPPATOS, George (Colorado School of Mines)

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: 74

Type: **not specified**

Trigger logic for debris detection using Mini-EUSO data

I will report:

- Quick review and update of study of Space Debris (SD) detection by Mini-EUSO-like telescope with ESAF and MASTER,
- Application of the SD trigger to Mini-EUSO meteor data, study of its performance
- Preliminary estimation of more realistic sensitivity for SD detection by Mini-EUSO-like telescope

Primary author: MIYAMOTO, Hiroko (University of Turin/INFN)

Co-authors: BARGHINI, Dario (University of Turin - Department of Physics); BERTAINA, Mario (Univ.Torino & INFN); BERTONE, Sara (University of Turin, Italy); Prof. BONINO, Raffaella (University of Turin); FENU, Francesco (INAF-OATO Torino); SUINO, Gregorio (University of Turin)

Presenter: MIYAMOTO, Hiroko (University of Turin/INFN)

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: 75

Type: **not specified**

CR Direct Hits

Primary author: Dr MARCELLI, Laura

Presenter: Dr MARCELLI, Laura

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 76

Type: **not specified**

VIS Camera

Primary author: Dr MARCELLI, Laura

Presenter: Dr MARCELLI, Laura

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 77

Type: **not specified**

AMON program in Slovakia

Primary author: MACKOVJAK, Simon (Institute of Experimental Physics, Slovak Academy of Sciences)

Presenter: MACKOVJAK, Simon (Institute of Experimental Physics, Slovak Academy of Sciences)

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: 78

Type: **not specified**

Mini-EUSO UV night maps

Primary author: BISCONTI, Francesca (University and INFN Turin)

Presenter: BISCONTI, Francesca (University and INFN Turin)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: 79

Type: **not specified**

Mini-EUSO flasher and non flasher events

Primary author: BISCONTI, Francesca (University and INFN Turin)

Presenter: BISCONTI, Francesca (University and INFN Turin)

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

Contribution ID: **80**

Type: **not specified**

Transient luminous events: a review

Primary author: ARNONE, Enrico (Department of Physics, University of Turin)

Presenter: ARNONE, Enrico (Department of Physics, University of Turin)

Session Classification: Data Analysis: SPB1 & EUSO-Balloon, OffLine, ESAF, Debris project etc.

Track Classification: Data Analysis and Simulations

Contribution ID: **81**

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Transient Luminous Events (TLEs) with POEMMA

This talk discusses the TLEs that can be observed with POEMMA and speculates about other TLEs that should be discoverable using POEMMA because of its large field of view, sensitivity and speed.

Primary authors: ADAMS, Jim (UAHuntsville); WIENCKE, Lawrence (Colorado School of Mines)

Co-author: CASOLINO, Marco

Presenters: ADAMS, Jim (UAHuntsville); WIENCKE, Lawrence (Colorado School of Mines)

Session Classification: POEMMA

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Mini-EUSO map (KS)

Primary author: SHINOZAKI, Kenji

Presenter: SHINOZAKI, Kenji

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Mini-EUSO cloud (MERRA2)

Primary author: SHINOZAKI, Kenji

Presenter: SHINOZAKI, Kenji

Session Classification: Mini-EUSO

Track Classification: Mini-EUSO

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Type: **not specified**

The switches and ASIC to Zinq data transmission

Primary authors: PRZYBYLAK, Marika (National Centre for Nuclear Research); SZABELSKI, Jacek (NCBJ Poland)

Presenter: SZABELSKI, Jacek (NCBJ Poland)

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