

# JEM-EUSO - Poland status & activities



FACULTY OF PHYSICS  
AND APPLIED  
INFORMATICS

University of Lodz



Akademia  
Nauk Stosowanych  
Stefana Batorego



NATIONAL  
CENTRE  
FOR NUCLEAR  
RESEARCH  
SWIERK



Zbigniew Plebaniak

Univ. Roma & INFN, Tor Vergata

# Members of the Polish Group in JEM-EUSO

**National Centre for Nuclear Research, Otwock**

Kenji Shinozaki, Michal Vrabel

**University of Łódź, Łódź**

Marika Przybylak (PhD student)

**Stefan Batory Academy of Applied Sciences,  
Skierniewice**

Jacek Szabelski

Włodzimierz Marszał (electronics engineer)

- without affiliation

**University of Warsaw, Warsaw**

Lech. W. Piotrowski (focused mainly on GRAND now)

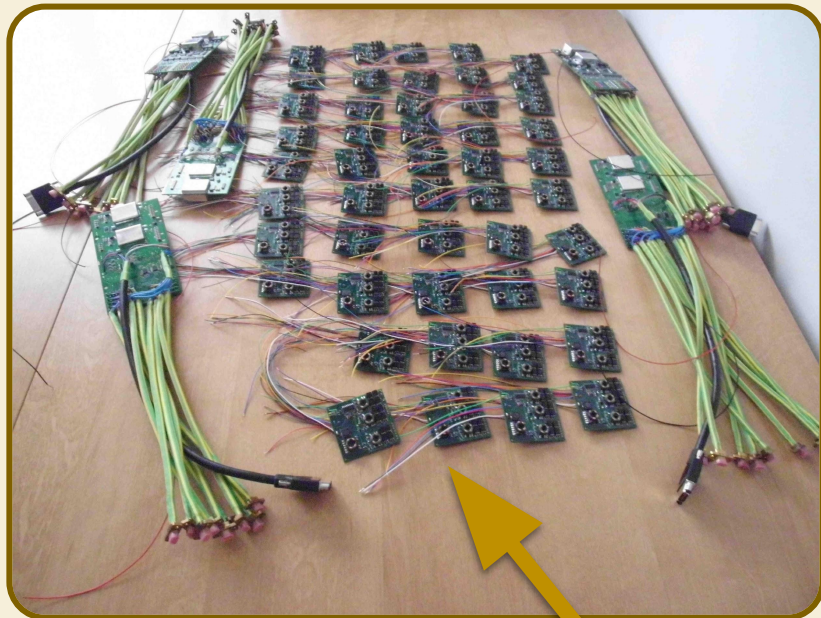
**Tor Vergata Univ. (currently abroad)**

Zbigniew Plebaniak



**6 members, 4 institutions**

## HVPS: support for PBR, Mini-EUSO and EUSO-TA

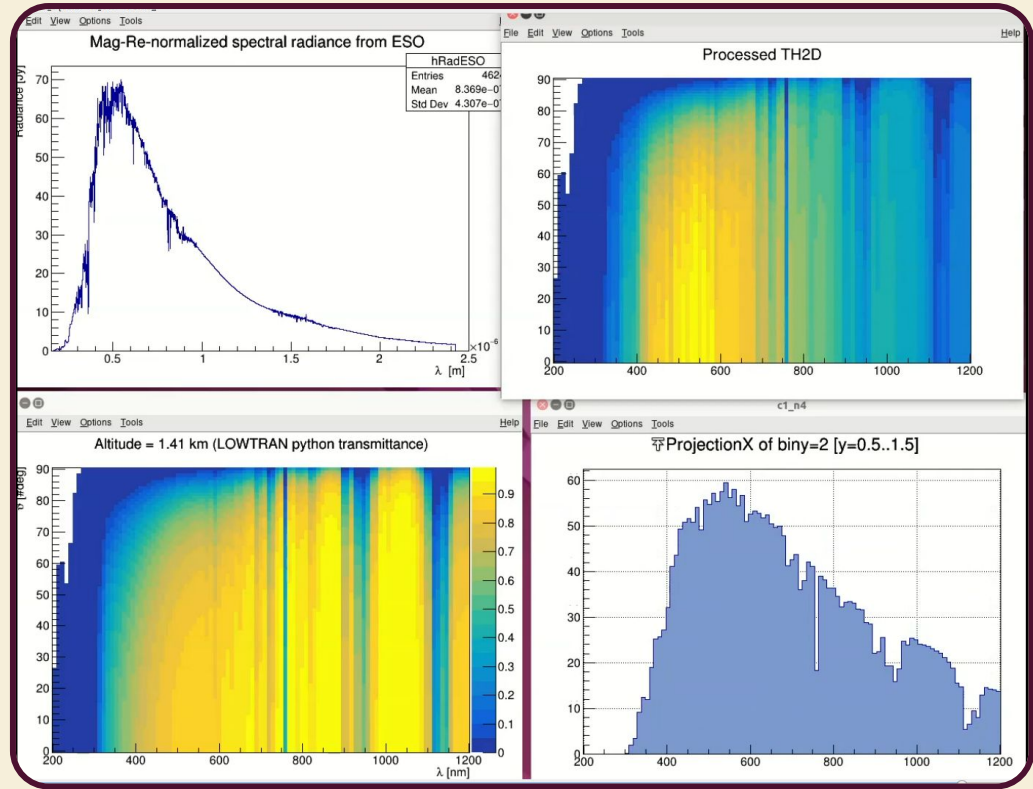


- Support in operating the **HVPS** for **Mini-EUSO**: data analysis, monitoring device performance, analysis of exceptions and non-standard behavior
- Support in analyzing of the **HVPS** behavior in **EUSO-TA** experiment

- **HVPS** subsystems for **PBR** were **made commercially in Poland**
- HVPS set for one PDM is one HVPS\_DC-DC\_Ctrl board and 9 HVPS-CW generators
- 4 sets + spare items were **delivered to the University of Chicago in September 2024**

# Other activities of the Polish JEM-EUSO group

- Kenji/Marika - work on atmospheric transmission model based on **EUSO-TA(1,2)** and **EUSO-SPB2** data in cooperation with **DIMS**
- Michał Vrabel - support in Mini-EUSO data processing
- Lech Piotrowski - Mini-EUSO data analysis and other activities related to ESA M8 call



# Plans for 2025

- **Support in integration and testing the HVPS for PBR, monitoring of Mini-EUSO and EUSO-TA**
- **Support in reorganization of Mini-EUSO data analysis**
- **Mini-EUSO and EUSO-TA data analysis**
- **Other ESA M8 related activities**

**Currently, no funds for JEM-EUSO in Poland.**