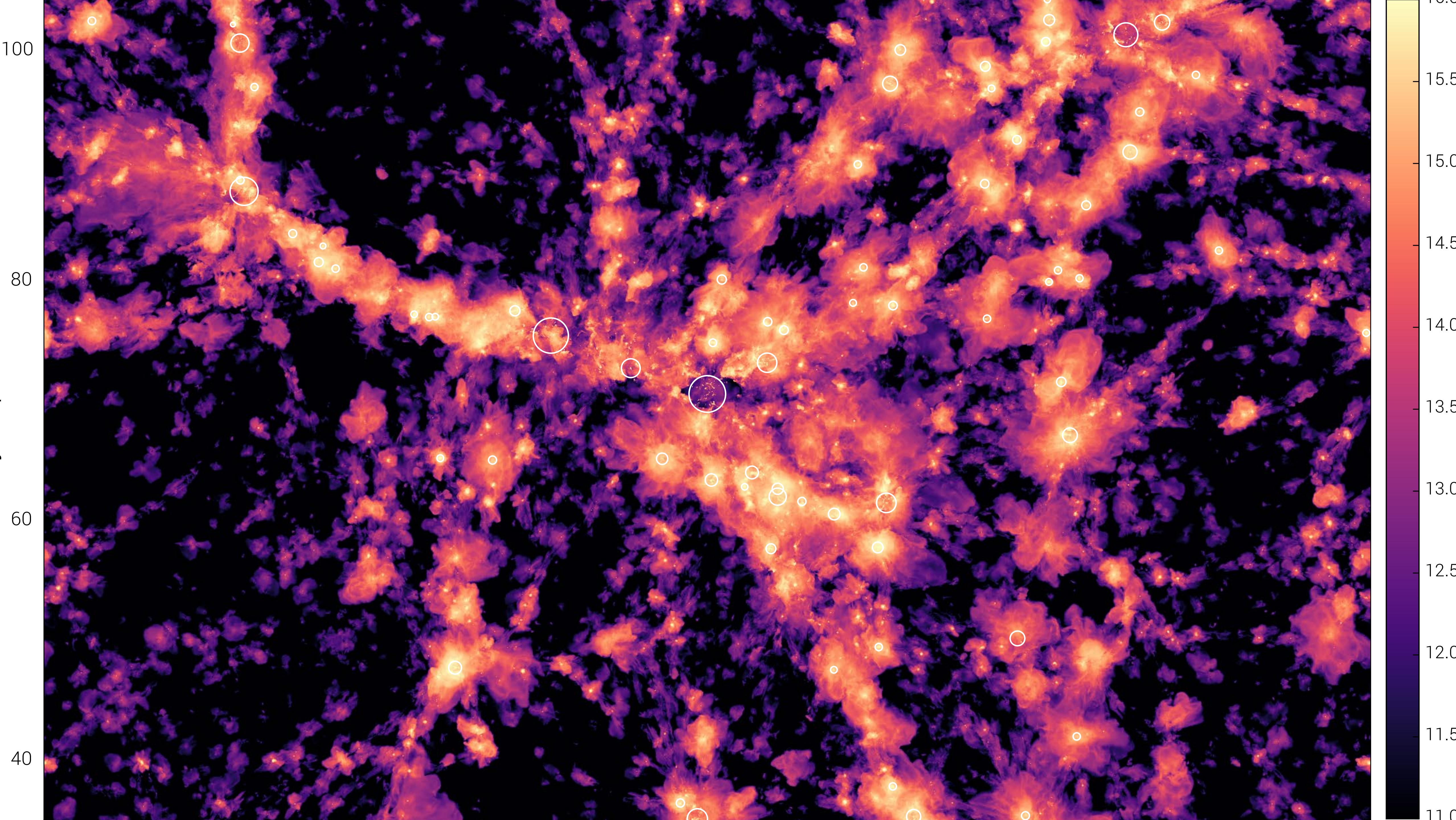


STUDYING THE *HOT* AND *ENERGETIC UNIVERSE* AT MASARYK UNIVERSITY

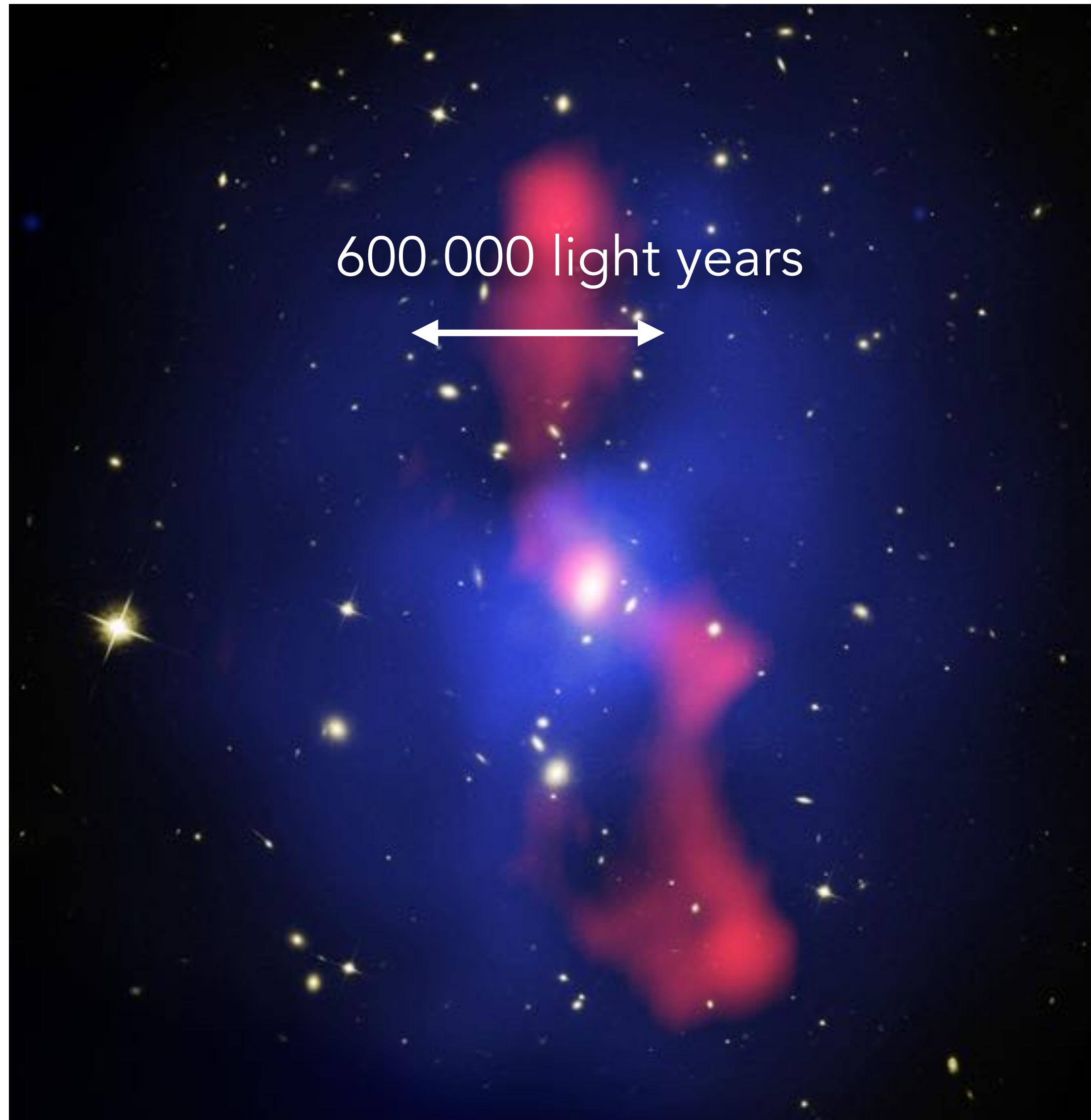


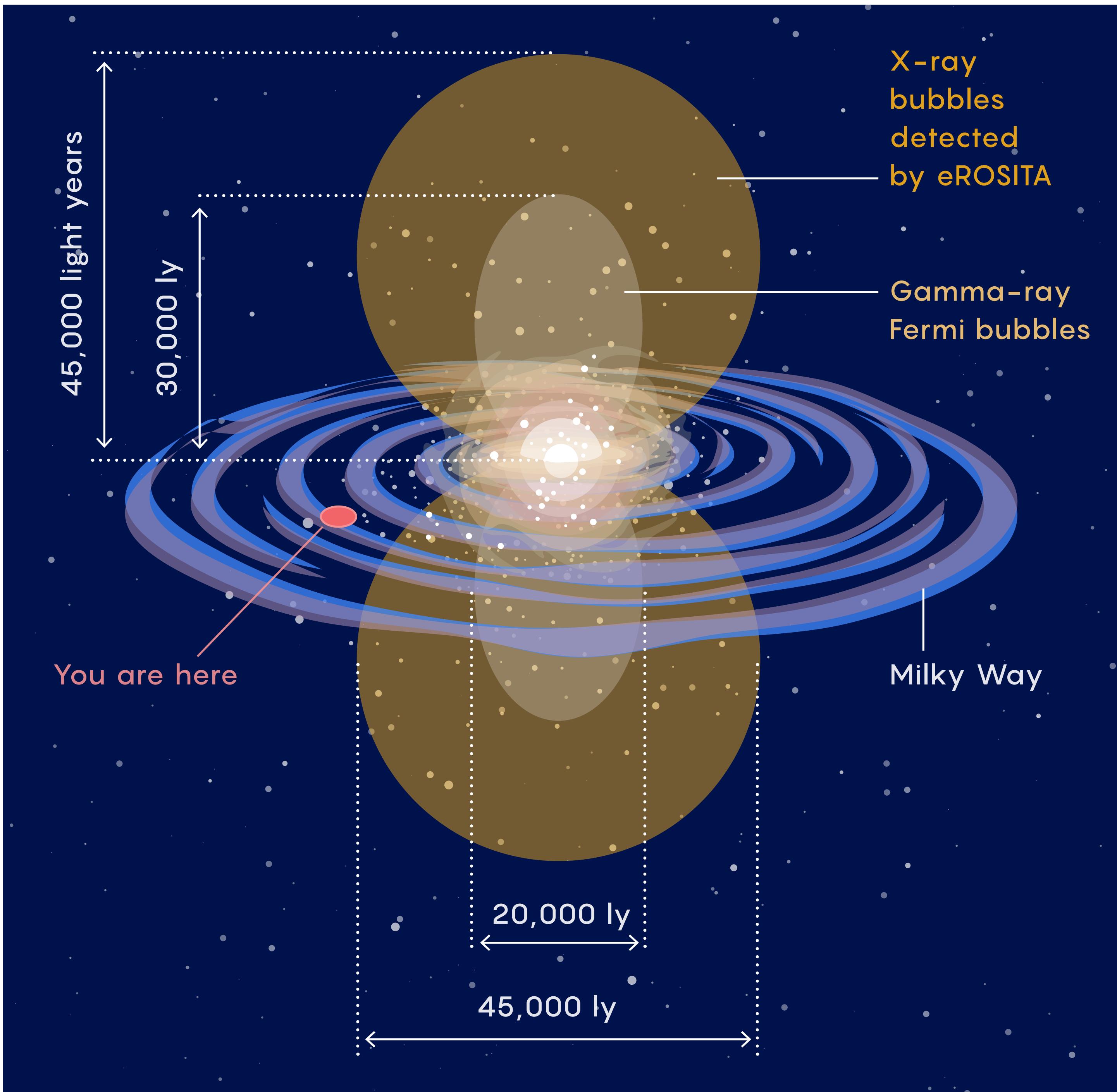
Supported by GAMU **MASH3** a GAČR **EXPRO** grants



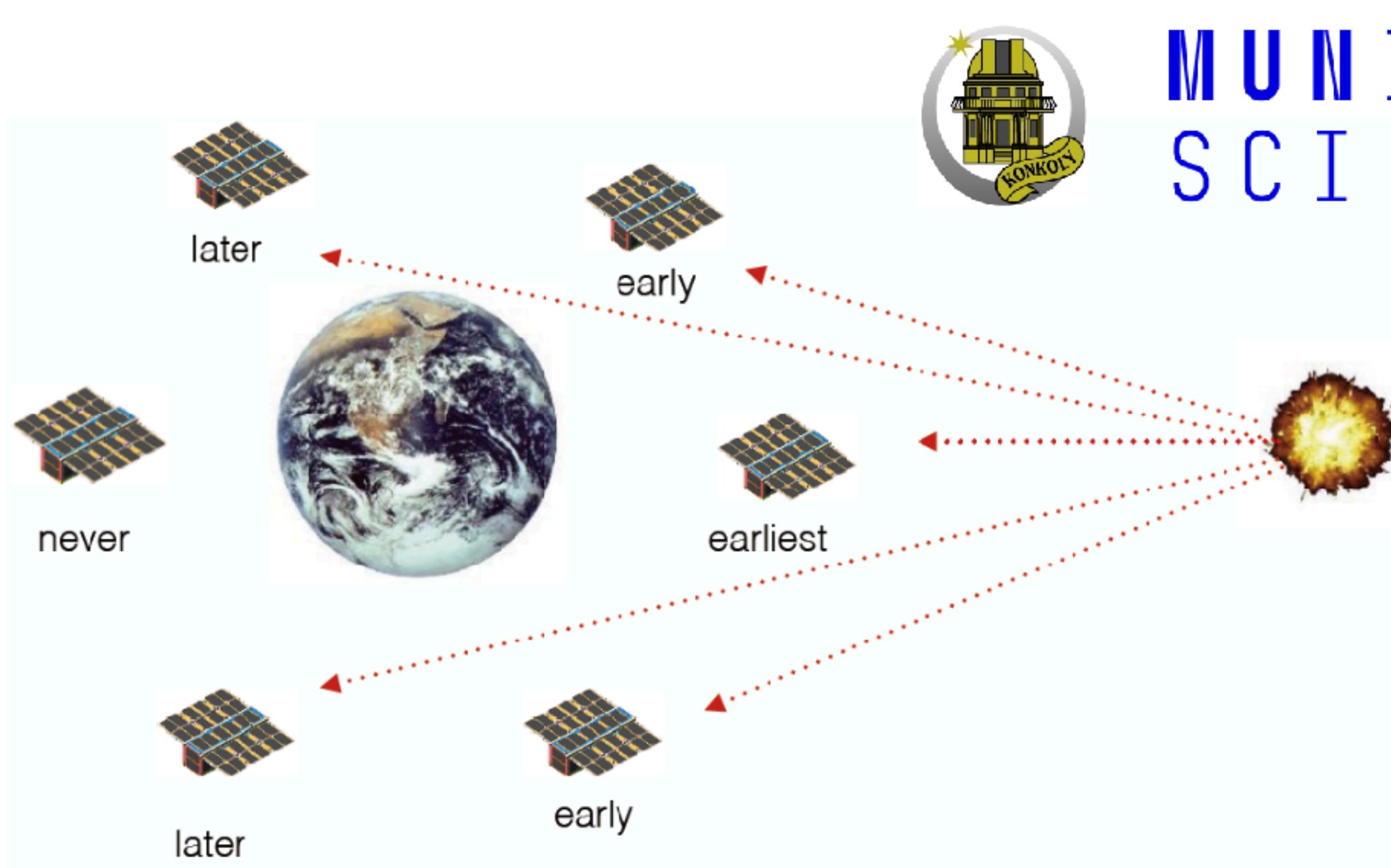


BLACK HOLE BLOWN BUBBLES IN CLUSTERS AND IN GALAXIES





CAMELOT: Cubesat Array for MEasuring and LOcalising Transients



MUNI
SCI



VZLÚ
... partner průmyslu

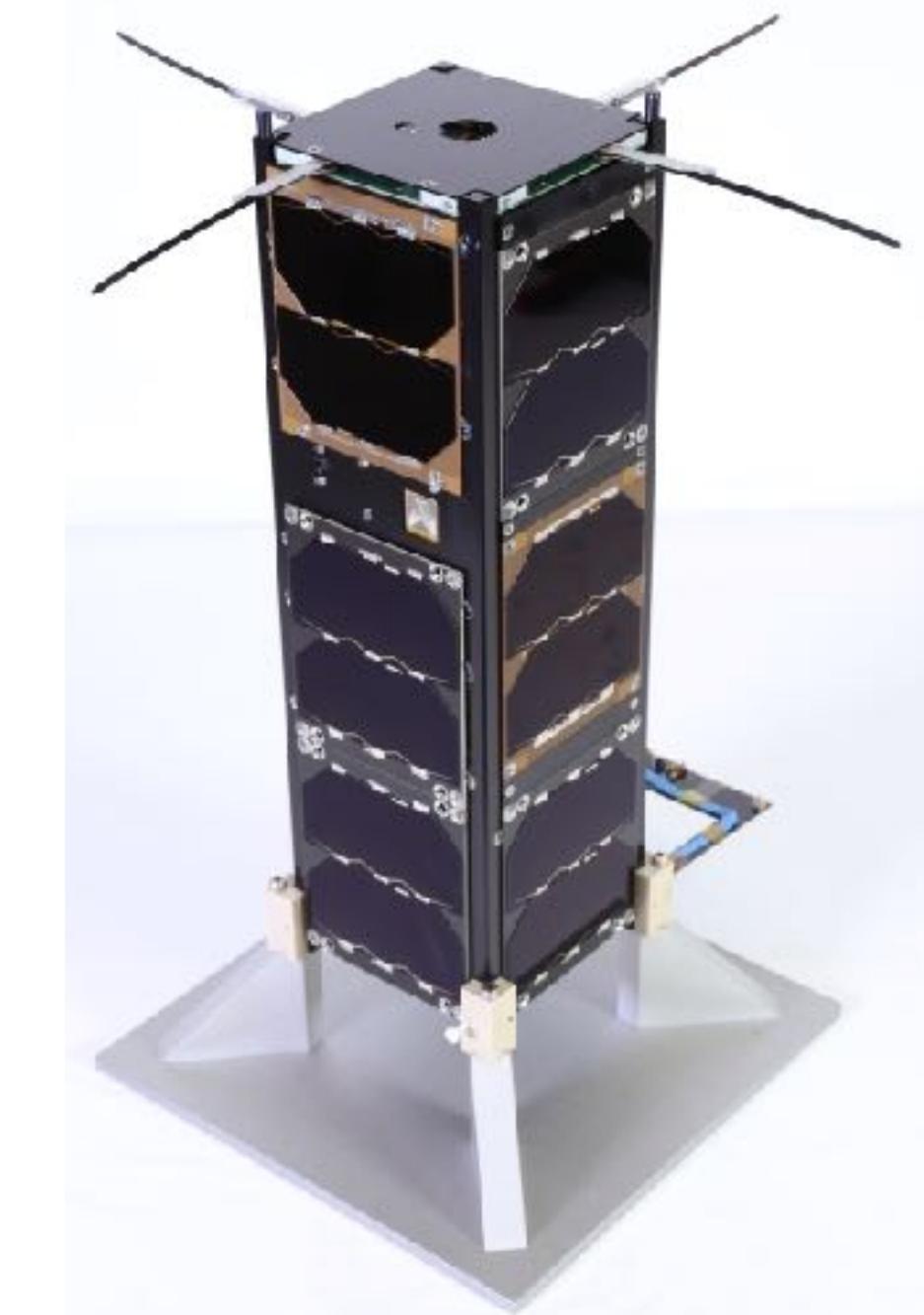
The fleet of 9 (18) satellites will provide a sensitive all sky coverage with a localisation accuracy of $\sim 1 \text{ deg}^2$

1. Tech demo with GRBAlpha, VZLUSAT-2, GRBBeta
2. Prototype of the CAMELOT satellite
3. Full constellation



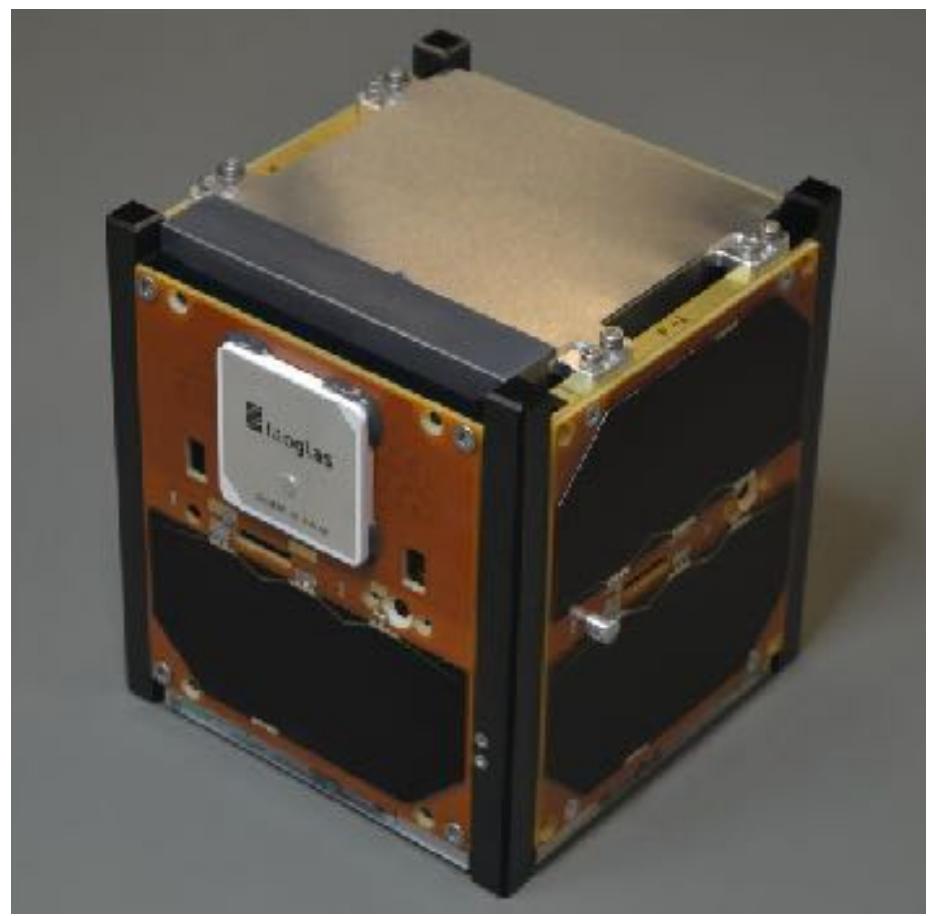
GRBAlpha

Launched: 22. 3. 2021



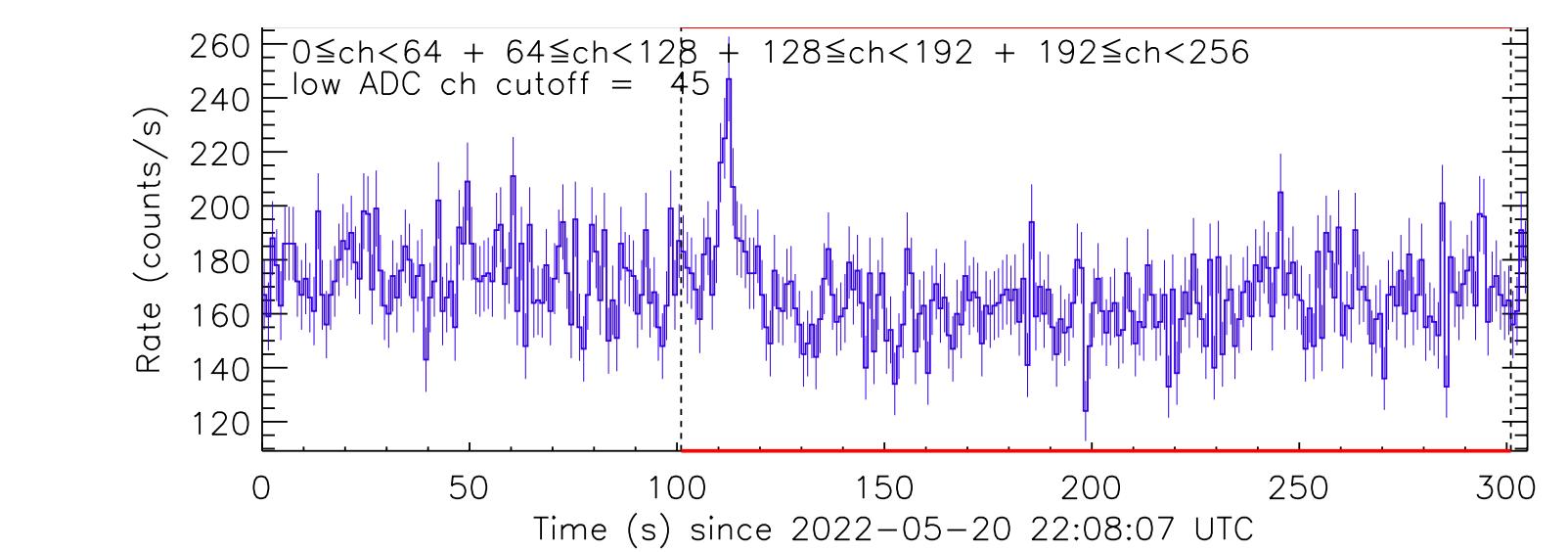
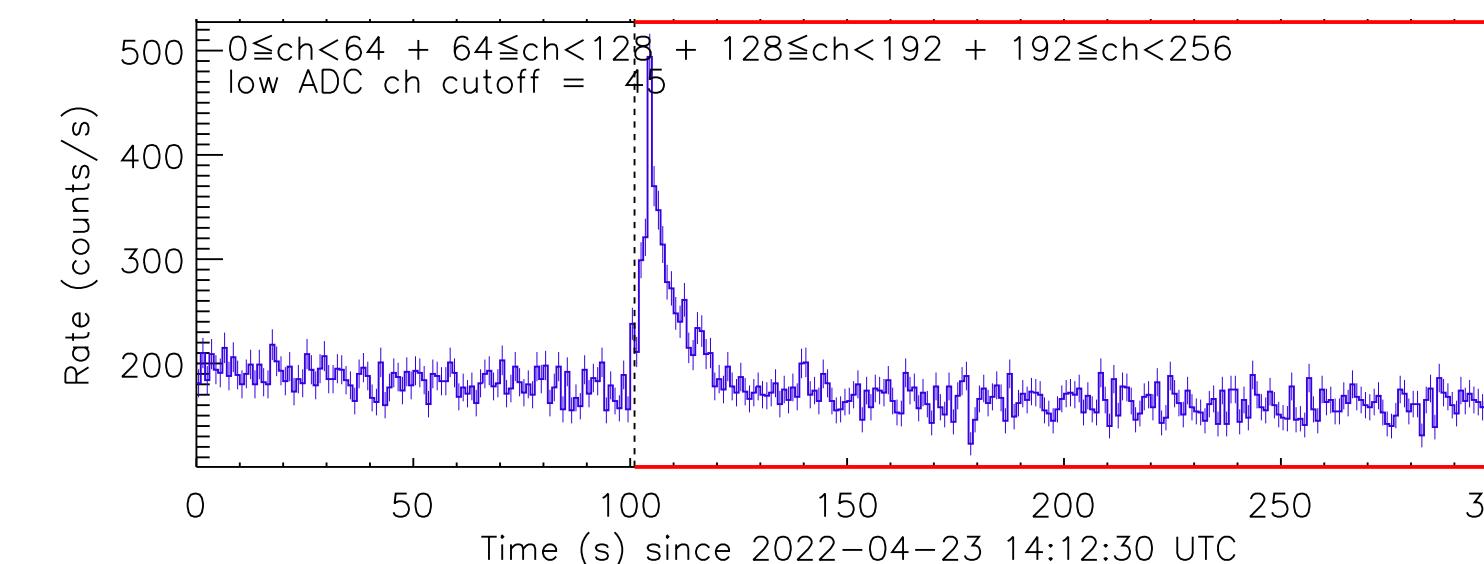
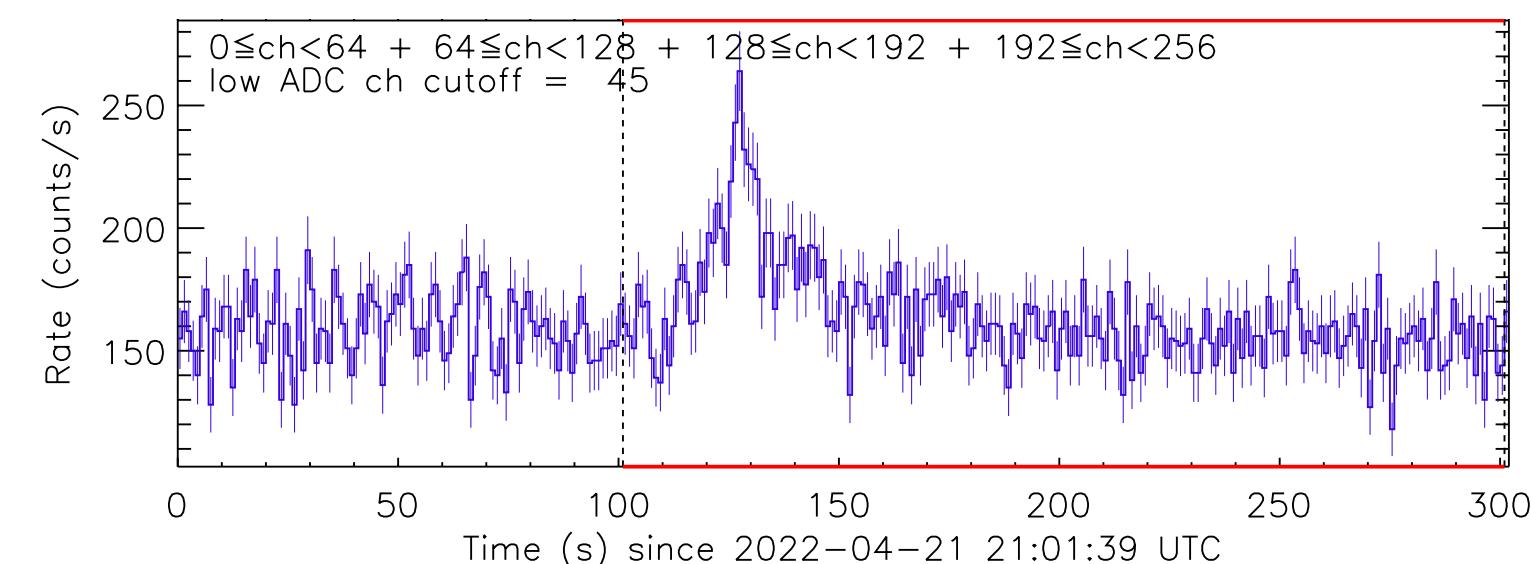
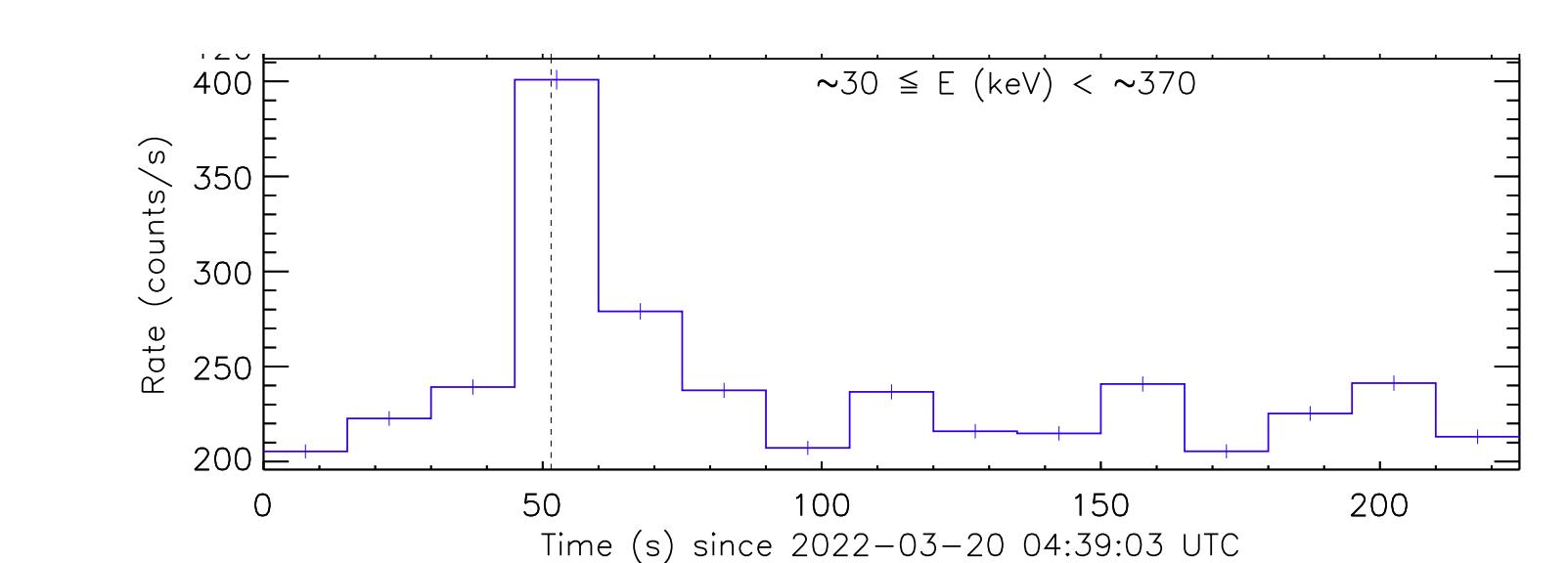
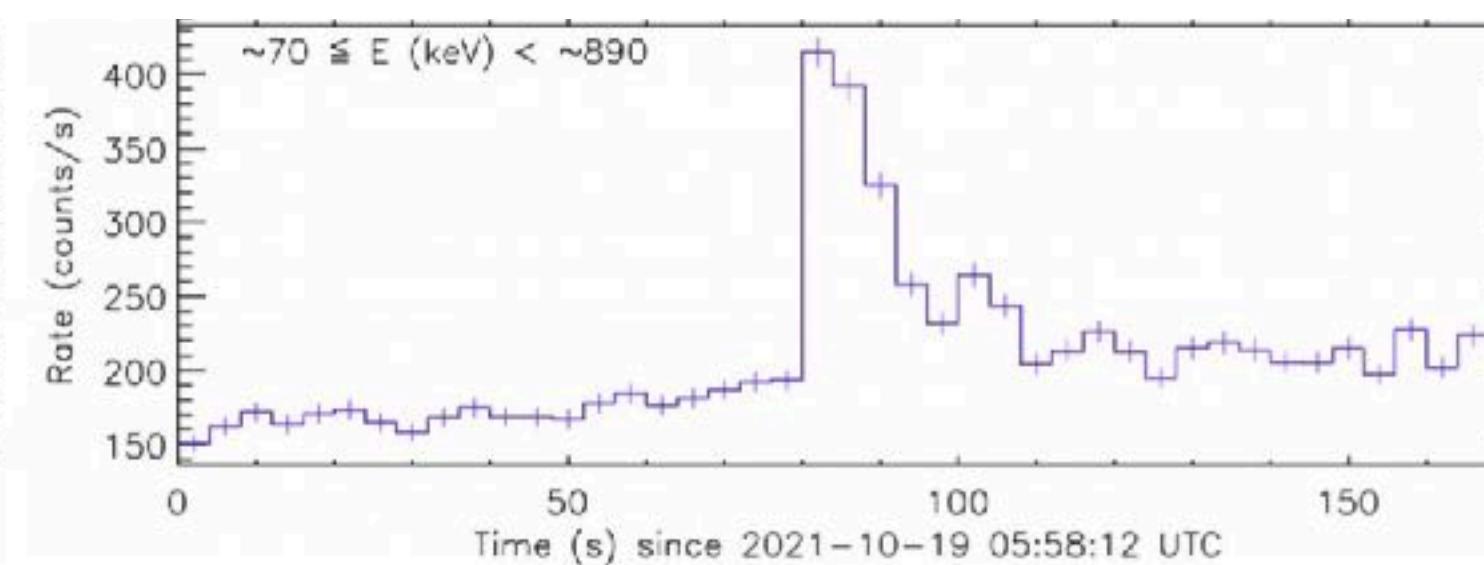
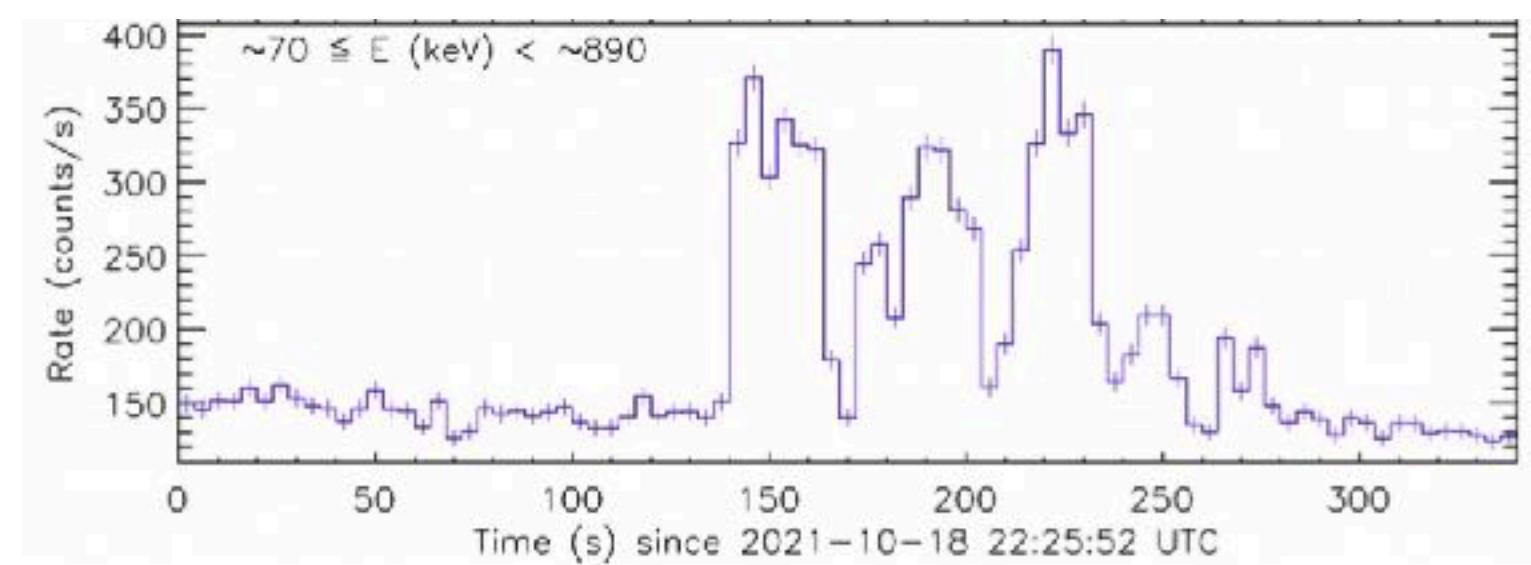
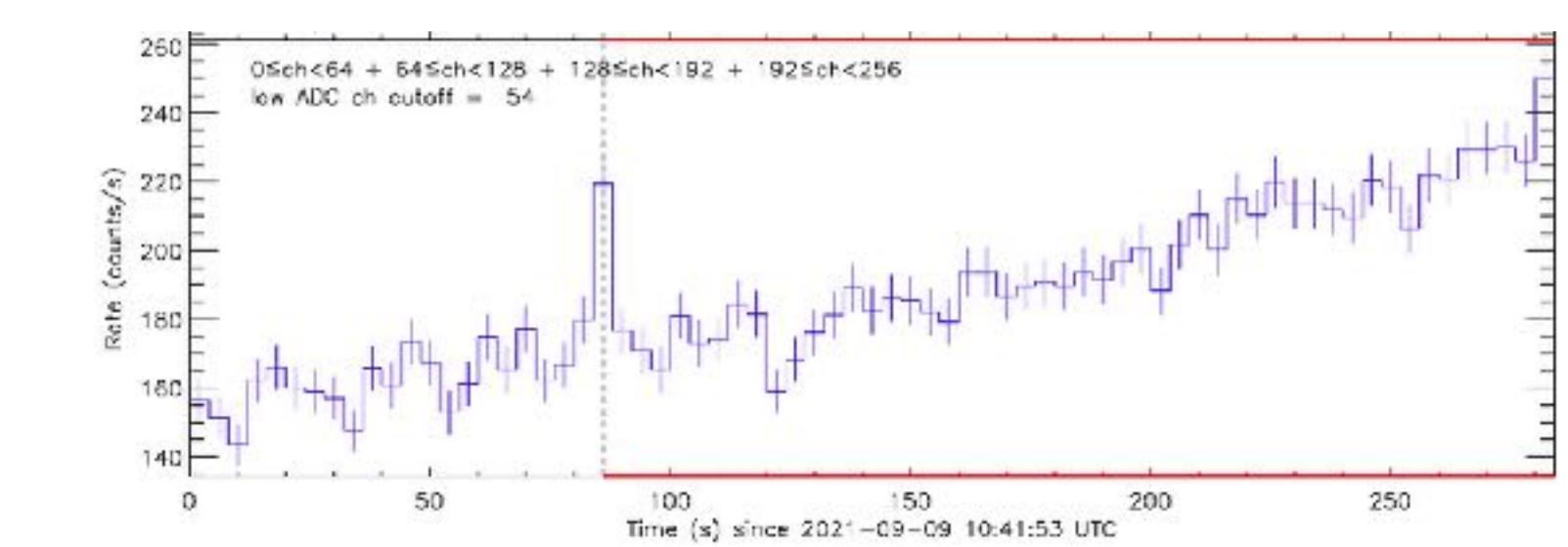
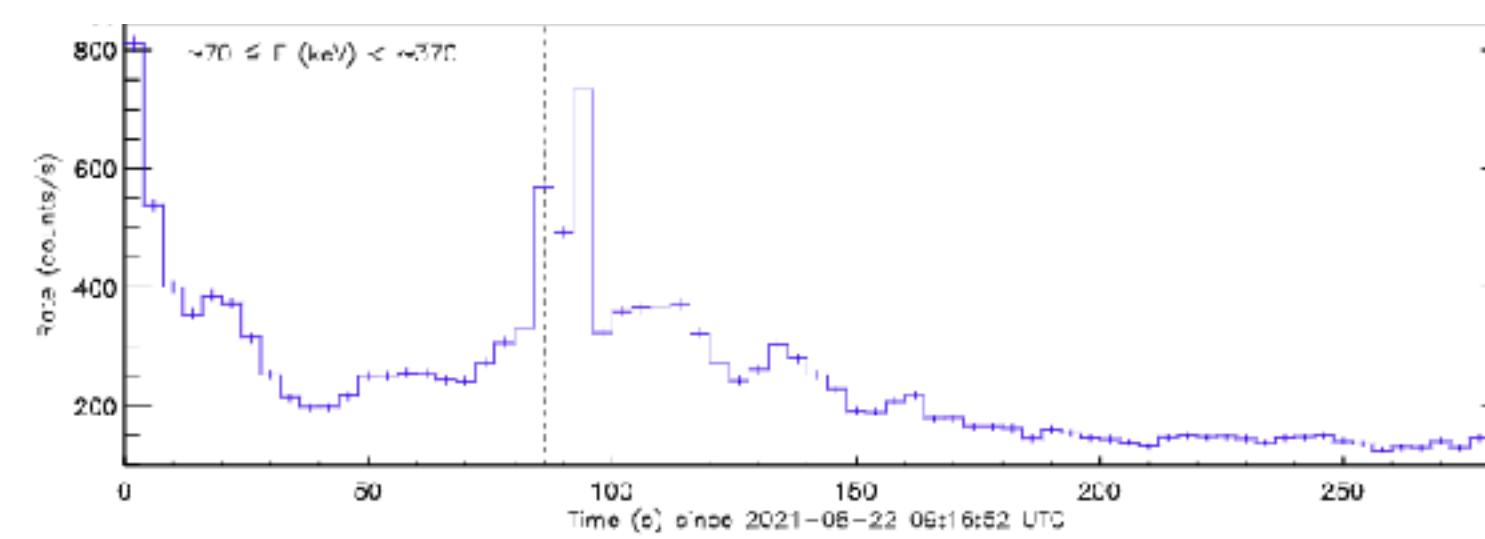
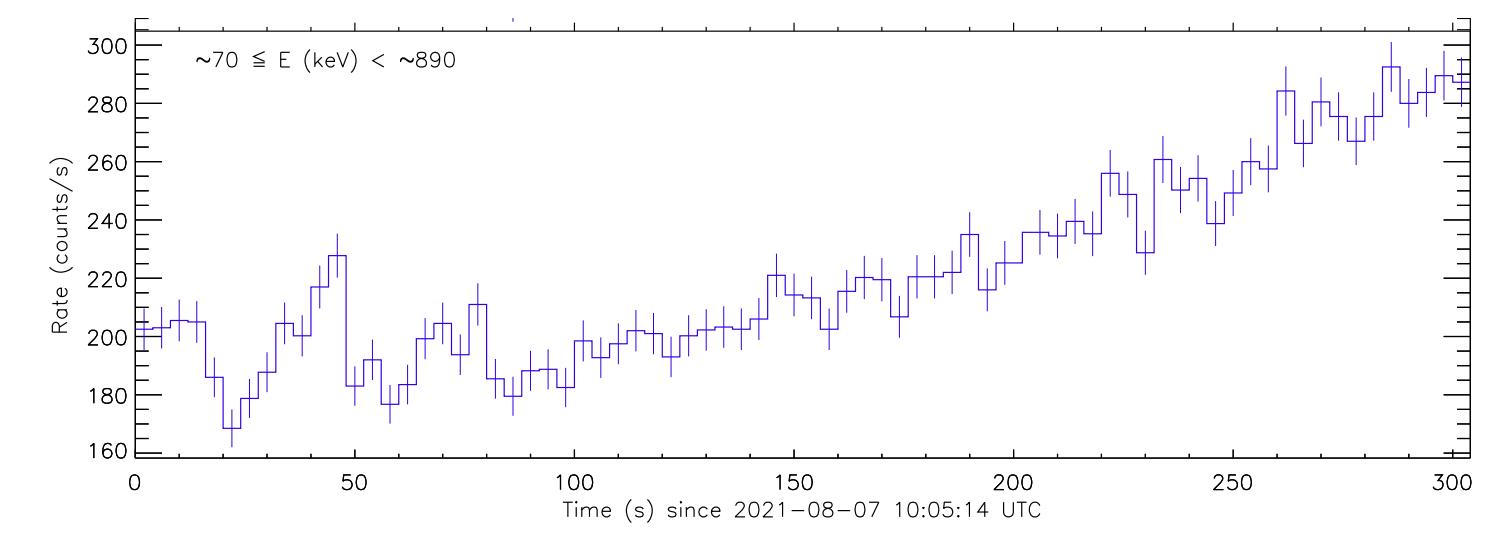
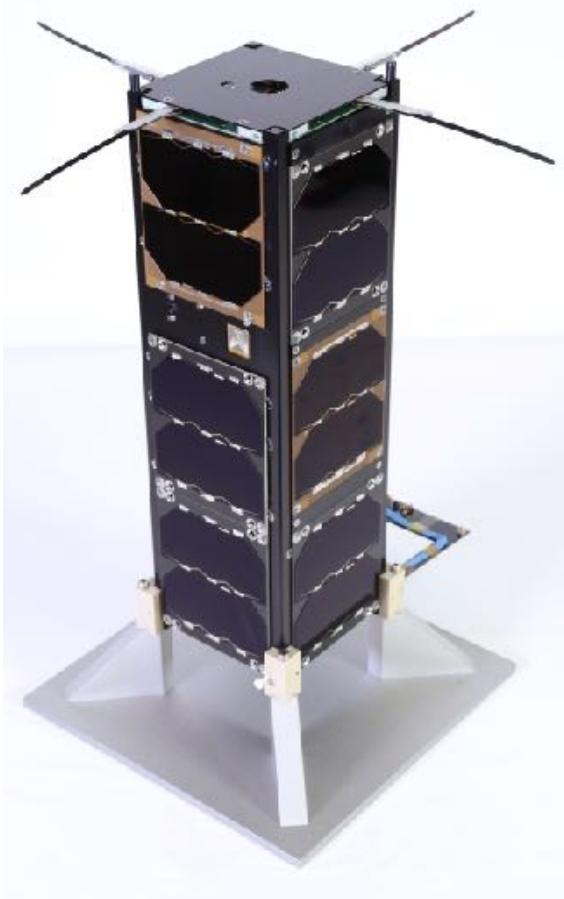
VZLUSAT-2

Deployed on: 26. 1. 2022

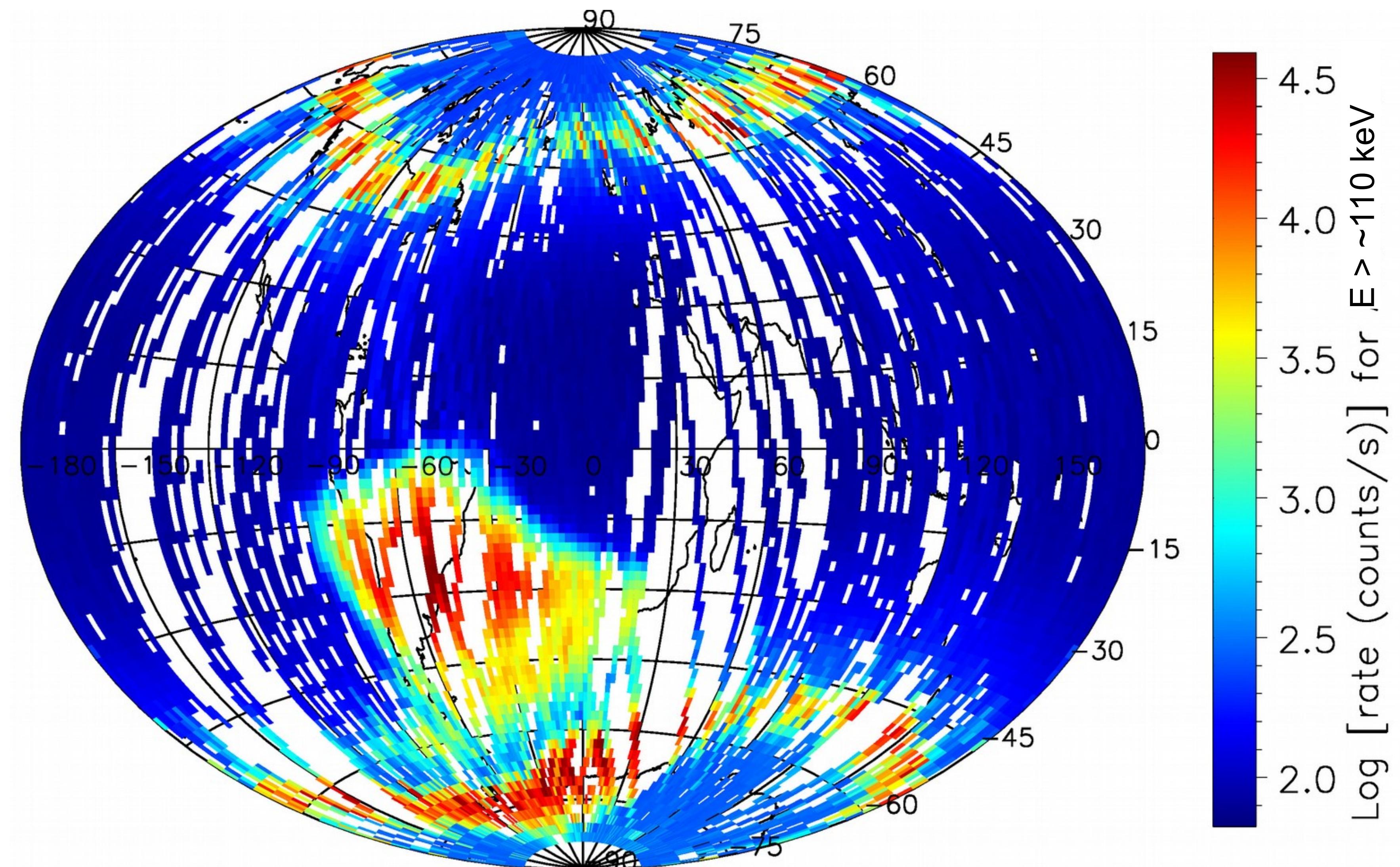


GRBAlpha & VZLUSAT-2

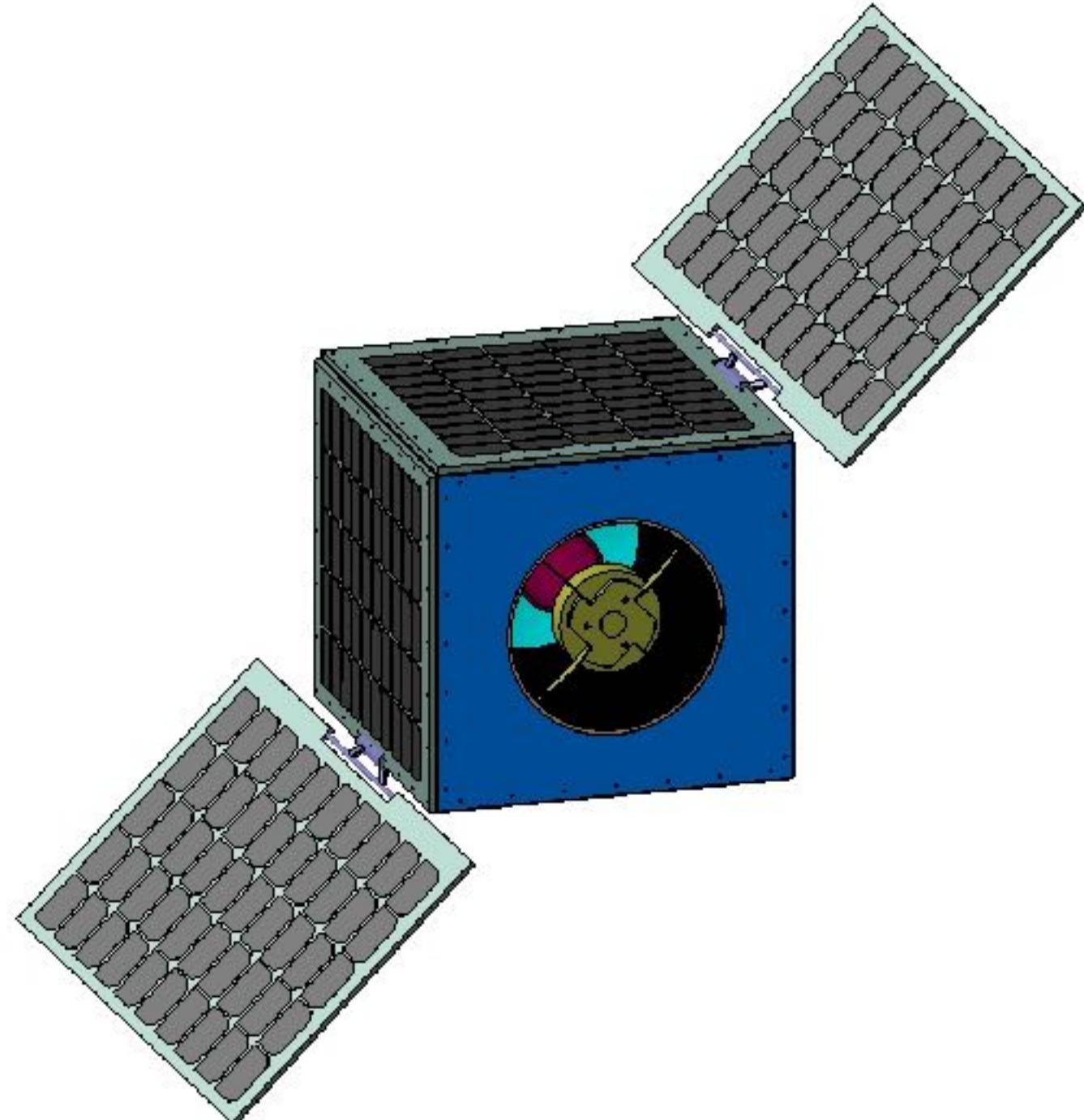
A SUCCESSFUL IN-ORBIT DEMONSTRATIONS



Map of energetic particles



QUVIK: Quick Ultra Violet Kilonova surveyor



- **UV Space Telescope** with a collecting area of at least 200 cm². Its primary objective is photometry of kilonovae detected by gravitational wave observatories out to 200 Mpc
- The satellite will have a fast repointing capability
- Many secondary science objectives (AGN, TDEs, exoplanets, GRB afterglows, hot stars, etc.)
- On a micro-satellite platform by VZLU
- MUNI is responsible for science (Science PI)