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## The Angular Resolution of the JEM-EUSO Mission: an updated view

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The Extreme Universe Observatory onboard the Japanese Experiment Module (JEM-EUSO) is a mission being developed to observe ultra high energy cosmic rays (UHECRs) from space.

JEM-EUSO consists of a wide field of view UV-telescope, assisted by an atmospheric monitoring system, designed to be mounted onboard the International Space Station.

JEM-EUSO will observe the extensive air showers (EAS) induced by UHE cosmic particles with energies above  $10^{19}$  eV by using the earth's atmosphere as a large detector.

Due to the amount of monitored target volume JEM-EUSO is expected to reach an effective aperture of approx.  $2 \cdot 10^5$  km<sup>2</sup> sr.

During its lifetime, the mission will measure about 1000 events with  $E > 5 \cdot 10^{19}$  eV significantly improving the statistics of the most energetic part of the spectrum above the observed cut-off.

In the context of the JEM-EUSO Collaboration different mission profiles are being explored.

A configuration actively investigated is a telescope, mainly based on the same technologies already employed in the baseline instrument, which can be launched with Space X Falcon 9 and tr\$

This new mission configuration allows a circular design of the optics which improves the performances.

In this paper we present a detailed study of the expected angular resolution of this new configuration.

### Collaboration

JEM-EUSO

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