Contribution ID: **55** Type: **01** - 分会报告

# The Very Large Area gamma-ray Space Telescope (VLAST)

*Thursday, 9 May 2024 14:40 (20 minutes)*

High energy gamma-rays carry the fundamental information of the astrophysical sources in extreme conditions. The space detection of gamma-rays is distinguished by the wide energy range, the observation continuity as well as the high energy resolution. We propose a new space-borne mission-Very Large Area gamma-ray Space Telescope (VLAST), covering a very wide energy range from MeV to TeV. VLAST has an acceptance of ~10 m2·sr at GeV energies and ~ 1 m2·sr at MeV energies. Together with an excellent energy resolution, VLAST is expected to increase the sensitivity of Fermi Large Area Telescope by a factor of 10. In this work, the main scientific objectives, the detection principle, the payload and the expected performance of VLAST will be introduced.

## Collaboration (if any)

**Primary author:** YUE, Chuan (Purple Mountain Observatory, Chinese Academy of Sciences)

**Presenter:** YUE, Chuan (Purple Mountain Observatory, Chinese Academy of Sciences)

**Session Classification:** 14 - 空间天文与粒子探测

**Track Classification:** 14 - 空间天文与粒子探测