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## The Zirè experiment on board the NUSES space mission

The Zirè detector is one of the scientific payloads of the NUSES satellite, which is currently under construction and is foreseen to be launched in 2026. Zirè aims to measure electrons, protons, and light nuclei in a kinetic energy range spanning from a few MeVs to several hundred MeVs, enabling the study of low-energy cosmic rays, space weather phenomena, and potential Magnetosphere-Lithosphere-Ionosphere Coupling (MILC) signals. The instrument is designed to also detect photons in the energy range from 0.1 MeV to 10 MeV, which is relevant for the study of transient events such as gamma-ray bursts (GRBs) and solar flares. All the Zirè detectors will be equipped with a readout system entirely based on the Silicon Photomultiplier (SiPM) technology. This work provides a general overview of the design activities, scientific goals, and the current development status of the Zirè payload.

## **Collaboration(s)**

NUSES

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