

## 20th Anniversary "Trento" Workshop on Advanced Silicon Radiation Detectors

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# Silicon sensors position and energy measuring systems for ionising radiation in space

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Solid state sensors have become the standard choice for radiation measurements in space since the early 2000s. Leveraging the development of tracking detectors for collider experiments, large area silicon strip systems have been designed and successfully operated in space in several astro-particle missions. With the multiplication of flight opportunities offered by the new space economy, the turn-around time for bringing in orbit new technologies have significantly shortened and can support developments of new technologies for the next generation of astroparticle missions as well as for small satellites for monitoring the Earth. The SpaceItUp! project, funded by the Italian Space Agency in Summer 2024, comes at the right time to support design optimization and qualification for space of some of the most performing devices for measuring position and energy of particles, like MAPS, LGAD and SiPMs. This talk reviews the goals and the status of this program.

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