

# TRAP

For further information on the experiment:

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## TRAP experiment will be tested in orbit on board Virgin Galactic SpaceShipTwo

Thanks to an agreement between the Italian Air Force and Virgin Galactic, TRAP, an experiment all made in Veneto, will be on board the upcoming suborbital mission of SpaceShipTwo. The main objective of TRAP is to demonstrate in flight the proper functioning, in microgravity conditions, of a highly innovative evaporator developed within T4i, which will be used for a new generation of cold gas propulsion systems for microsattellites.

These engines are designed to radically improve the proximity operations of these small platforms. TRAP experiment was designed by T4i, a leading Padua-based company in the field of propulsion for small satellite platforms, and the University of Padua's CISAS (G. Colombo) Centre for Space Studies and Activities.

T4i was mainly responsible for the concept of the experiment and its design, while the academic team, consisting of both professors and students, carried out the testing phase. This is therefore not only a great technical and industrial achievement for Italy, but also a unique educational opportunity for the students who took part.

