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## **Relativistic measurements with the Galileo Constellation: the Galileo for Science\_2.0 (G4S\_2.0) Project**

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G4S\_2.0 is a new project funded by the Italian Space Agency (ASI) that aims to perform a set of gravitational measurements with the Galileo satellites of the Full Operational Capability (FOC) constellation. Two of these satellites, GSAT 0201 and GSAT 0202, are characterized by a relatively high eccentricity of their orbits, about 0.16, with respect to that of the other satellites of the constellation, close to zero. From the accurate analysis of the orbits and clocks of these satellites it is possible to perform a series of relativistic tests. These tests mainly concern the motion of a “proof mass” along a timelike geodesic of space-time and the time dilation of on-board clocks.

After a general introduction to the goals of G4S\_2.0 in the field of fundamental physics measurements, we present the preliminary activities of the project which are under development by IAPS-INAF in Roma, ASI-CGS in Matera and Politecnico in Torino.

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