



UNIVERSITA' DEGLI STUDI DI PAVIA

*DOTTORATO DI RICERCA IN FISICA*

## **COLLOQUIA 2016-2017**

**Martedì 23 Maggio 2017**

**Aula 102 "L. Giulotto", ore 16.00**

*Dipartimento di Fisica, via Bassi 6, Pavia*

### **The scientific utilization of the International Space Station**

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**Abstract:** The International Space Station (ISS) is a unique laboratory orbiting above our heads at about 400 km of height. It was assembled in orbit via more than 40 different flights, during a phase that started in 1998 with the two launches of the first two elements and lasted more than 10 years. After this phase, the full scientific utilization of the ISS eventually started, supported by a crew of 6 astronauts. The International Partners of the ISS (NASA, Roscosmos, JAXA, ESA and CSA) agreed to extend the life of the Station up to 2024, and possible extra-extensions may arise in the future.

This colloquium will illustrate how Italy is directly involved in the ISS, which peculiar conditions make the ISS a scientific laboratory and which are the steps that bring a scientific experiment from its conception to its execution on board.