



## Our Team

We are a team of students of the University of Padova. We decided to participate to a "once in a student lifetime" experience: the REXUS/BEXUS programme!

The team is composed of five Master students of Aerospace Engineering, a Master student of Astronomy and a PhD student in the School of Science, Technology and Space Measurements of Padova.

Our work is fully supported by professors of the Aerospace Engineering Course Council, by CISAS (Interdepartmental Centre of Space Studies and Activities) and by the University of Padova.

## The experiment: SCRAT

Our experiment has been selected among several proposals coming from the whole Europe during the workshop which took place in ESTEC, Noordwijk, 15<sup>th</sup>—17<sup>th</sup> December 2009, and it will fly on the BEXUS stratospheric balloon, in October 2010.

The main goal of SCRAT (Spherical Compact Rechargeable Air Thruster) is to test a mini air thruster, which is now almost designed and which will be manufactured and tested by our team with the support of the University of Padova and of CISAS.

The next appointment with ESA will be in Sweden in the space centre ESRANGE, to attend the "Student Training Week", 1<sup>st</sup>-5<sup>th</sup> February. Then, there will be a lot of work to be ready to fly!



### Contact

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## SCRAT and public

Our project will be supported by a constant advertising campaign, which will be useful to make known the BEXUS program and our work.

We are realizing an web site, which will be constantly updated, we will do a great promotional campaign thanks to social networks, and we are looking for newspapers (specialized or not) interested in recounting our project.

Moreover, we will present SCRAT in the courses of Engineering and of the Doctorate School of Padova, as well as in high schools.

