



MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO  
**INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS**

# Academic Activities at INPE in the Space Field

Antonio F. Bertachini A. Prado  
antonio.prado@inpe.br

# Indroduction

- The Instituto Nacional de Pesquisas Espaciais - INPE (National Institute for Space Research) has a group of graduate schools, with the goal of educating people at a high level in order to be part of the Brazilian space activities;
- It gives important contributions to the scientific research performed at the Institute;
- The Institute receives scholarships from federal agencies (CAPES and CNPq) and also from the Sao Paulo state foundations FAPESP.

# Indroduction

- It supports researches in all space-related fields that INPE is involved and it has been forming researchers for the whole country, helping to create new groups;
- Its programs is usually very well evaluated in the Brazilian ranking (made every four years by CAPES);
- It started working in 1968 and, up to the end of 2015, it graduated 2396 students, being 1798 masters and 598 doctors.



# Programs

- Astrophysics
- Applied Computation
- Earth's Science
- Space Engineering and Technology
  - ✓ Space Mechanics and Control
  - ✓ Combustion and Propulsion
  - ✓ Sciences and Tec. of Materials and Sensors
  - ✓ Eng. and Management of Space Systems
- Space Geophysics
- Meteorology
- Remote Sensing

# General rules

- The usual requirements and duration are:
- 1) 2 years for the master program, with 8 months spend in classes and 16 months in research. A Thesis is required. It is necessary to complete the undergraduate course to start the program;
- 2) 4 years for the doctoral program, with 12 months spend in classes and 32 months in research. There is also a "qualifying examination", covering all aspects of the main courses. A Master degree is usually required to start the doctoral program.

# Graduated Students

From 1968 up to 2014 (in 2015 alone):

- . Total: 2515 (120)
- . MSc: 1909 (82)
- . PhD: 626 (38)



# Numbers in September 2016

## Professors:

- . Total: 266
- . Permanent: 196
- . Collaborators: 70

## Regular students:

- . Total: 525
- . Brazilians: 474
- . Foreigners: 51



# Actual numbers in September 2016

Regular students:

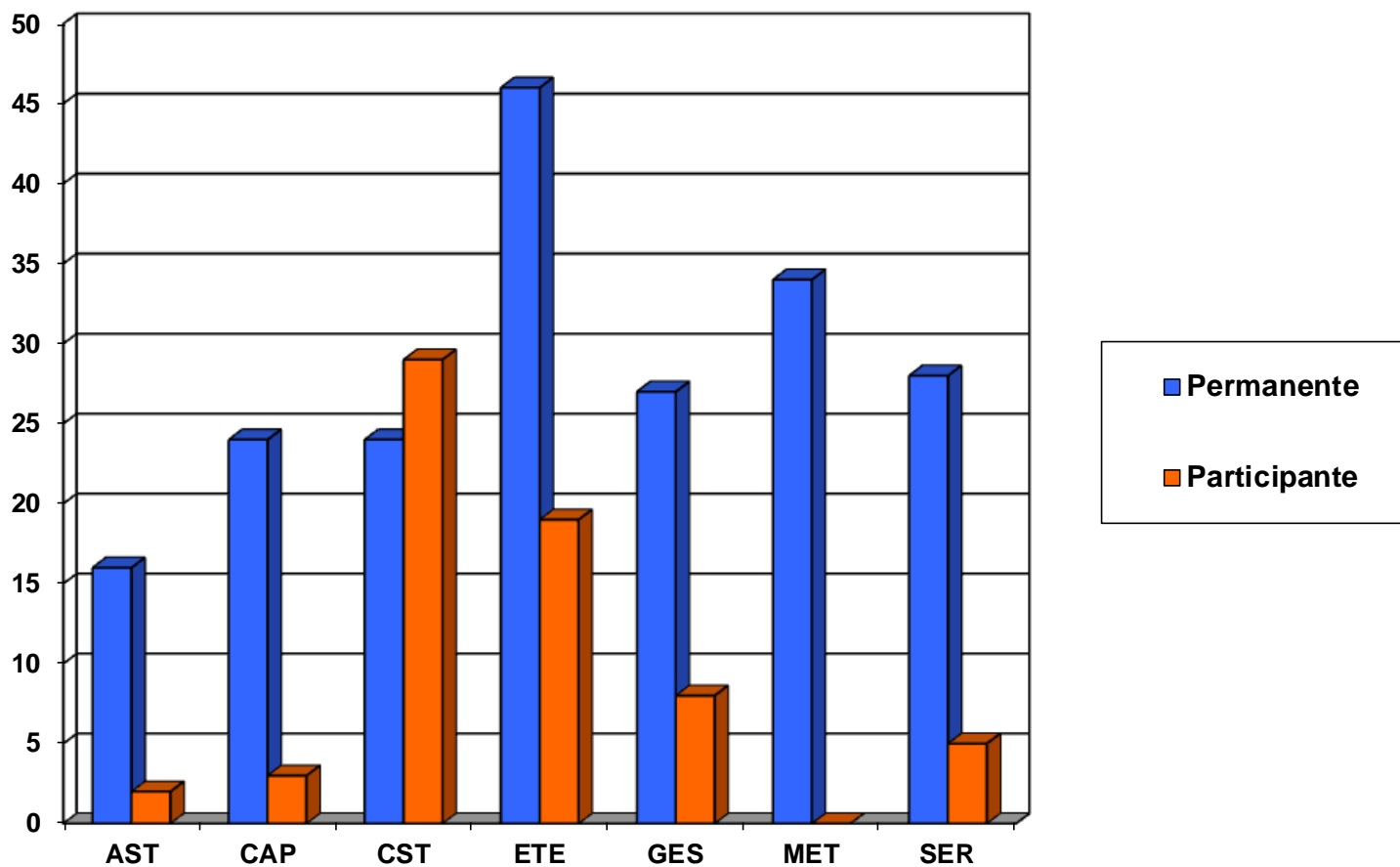
- . Total: 525
- . MSc: 171
- . PhD: 354

Outside students (disciplines):

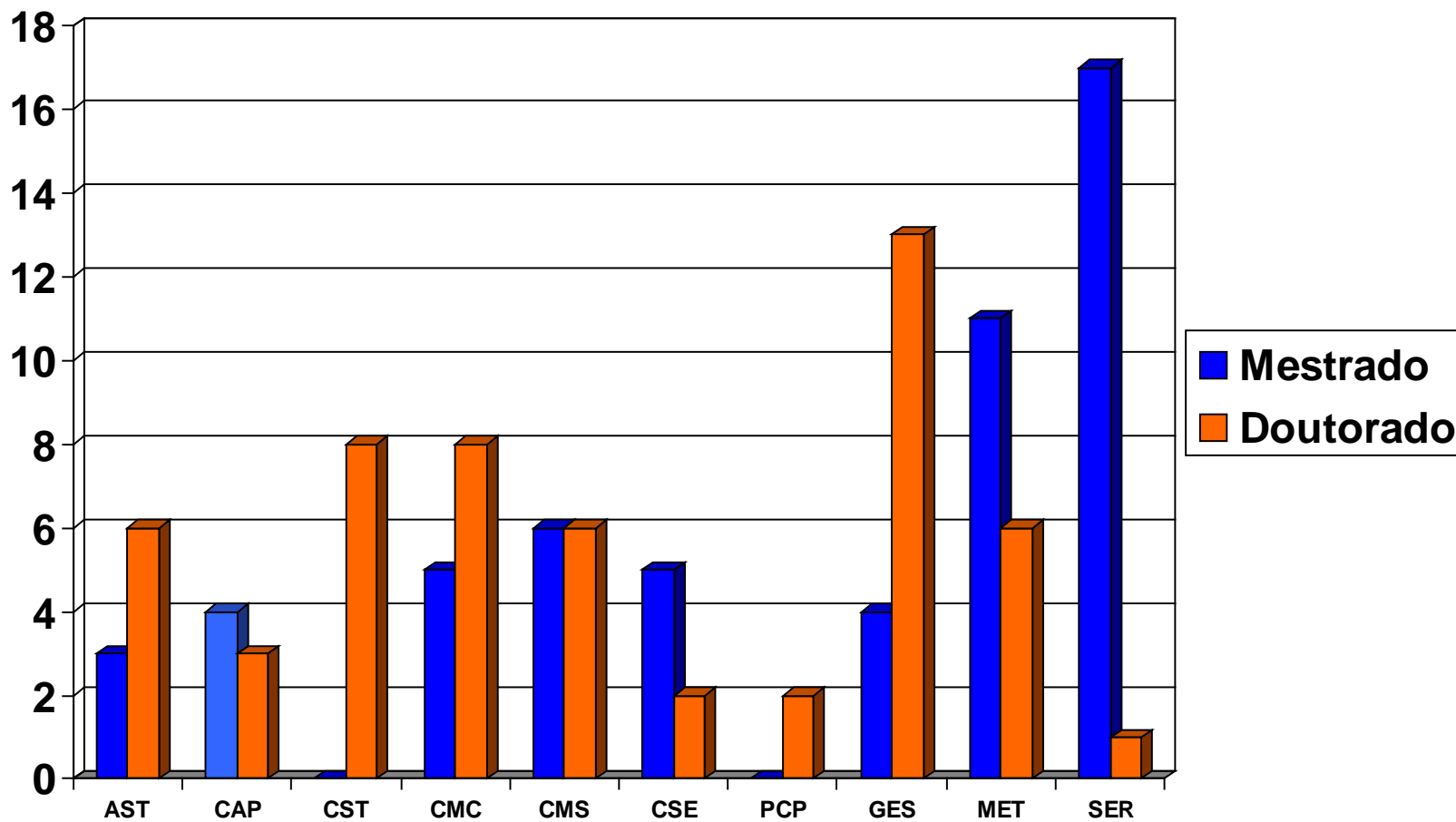
- . Total expected until end of 2015: ~400



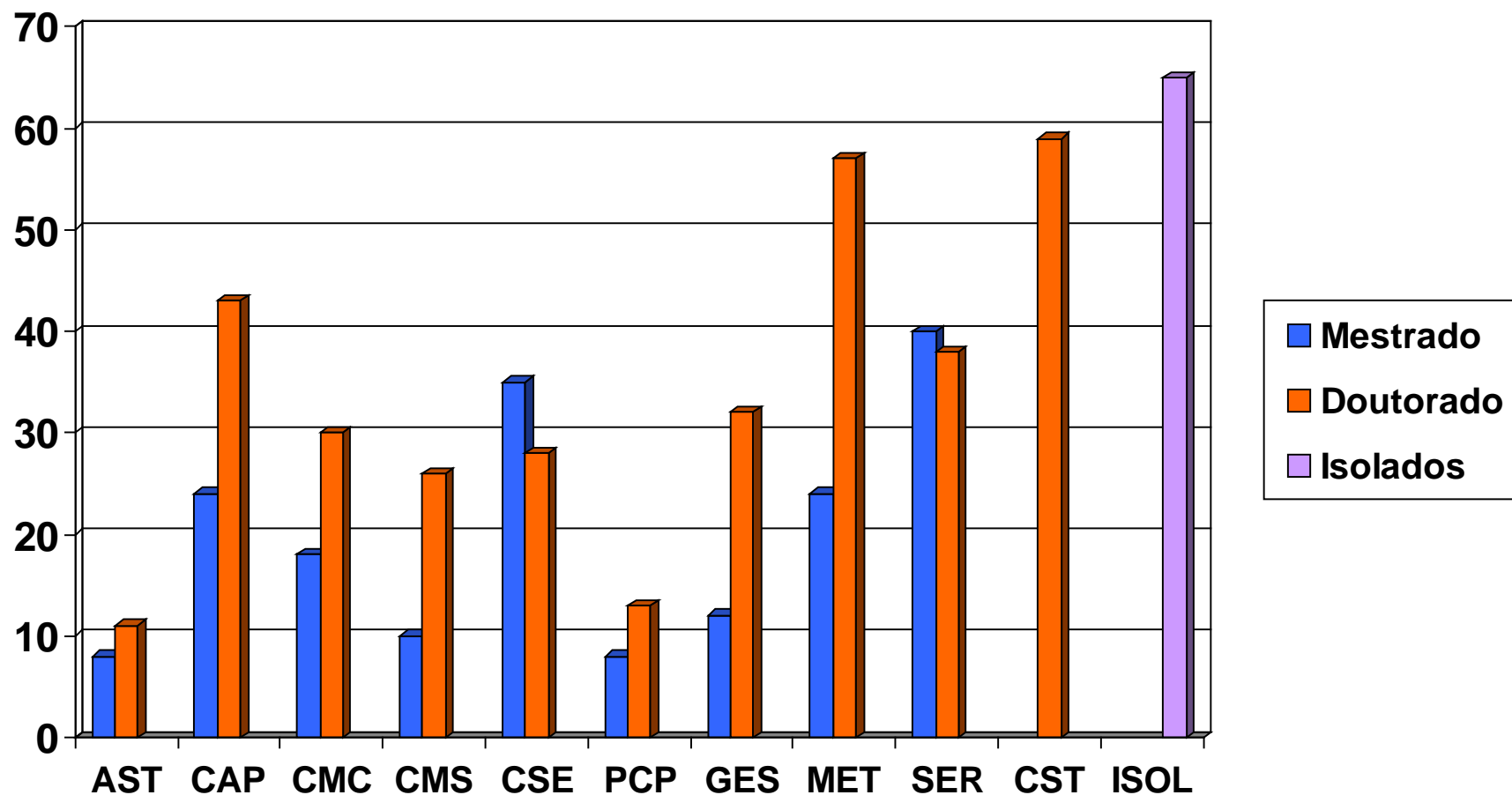
# Professors 2016



# Graduations 2016



# Students 2016



## Final Remarks

The Graduate Studies Program at INPE pervades every area in INPE.

It gives support to research in space-related fields of knowledge in INPE and has been forming researchers for the whole country.

It is very well-positioned in the Brazilian rank (CAPES), usually in the top 5 institution of the country.