

Corrado Perna

INAF



ISTITUTO NAZIONALE DI ASTROFISICA  
NATIONAL INSTITUTE FOR ASTROPHYSICS

# **THE ISTITUTO NAZIONALE DI ASTROFISICA**

Overview of the Italian National Institute for Astrophysics



**The Triple Meeting**  
*APRE - Rome, 31 May 2013*

The National Institute for Astrophysics is the Italian national public body in charge of coordinating, planning, and performing researches in the following sciences and related technologies:

- Astronomy
- Astrophysics
- Space Physics

INAF is headquartered in Rome, organized in 17 researches centres spread in 11 Italian cities and 3 national facilities, 2 sited abroad.

- 12 Multi discipliny Observatories
- 5 Thematic Institutes
- SRT – Sardinia Radio Telescope
- TNG – Galileo National Telescope
- 25% shares of the LBT – Large Binocular Telescope

## THE NUMBERS

### World Most Cites Articles Ranking\*

\* source: Thomson-Reuters

Ranking	Nazione	N. articoli 2008-2010	%	N. articoli 2005-2007	%
1	USA	297	49.5	287	47.8
2	Germania	69	11.5	69	11.5
3	Regno Unito	61	10.2	54	9.0
4	Italia	39	6.5	36	6.0
5	Francia	34	5.7	22	3.7
6	Svizzera	21	3.5	14	2.3
7	Canada	17	2.8	21	3.5
8	Paesi Bassi	15	2.5	7	1.2
9	Australia	9	1.5	7	1.2
10	Giappone	6	1.0	27	4.5
11	Spagna	6	1.0	7	1.2

Ranking	Istituti	N. articoli 2008-2010	Sedi
1	MPIA (DE)	54	
2	Univ. California (USA)	38	LA, S.Cruz, Berkeley, S.Barbara, Davis
3	CFA (USA)	36	
4	<b>INAF (I)</b>	26	
5	CNRS (F)	26	
6	NASA (USA)	19	AMES, Goddard, STScI
7	Naval "	17	
8	CalTech "	16	+JPL
9	Princeton "	16	
10	Cambridge (UK)	13	
11	Arizona (USA)	13	
12	Leiden	11	
13	Zurich	11	
14	Stanford	11	
15	Durham	9	

## OVERVIEW OF INAF INVOLVEMENT IN SPACE PROGRAMS

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### ☐ ESA Mandatory programs

#### ➤ Horizon 2000

- XMM, Integral
- Herschel
- Planck
- Bepi Colombo (D phase)

#### ➤ Cosmic Vision 2015-2025

- Missione Large (slot L1)
  - JUICE, (Athena, NGO)
- Missioni Medium (slot M1 e M2)
  - Solar Orbiter
  - Euclid
- Missioni Medium in Assessment Phase LOFT,
  - EChO,
  - Marcopolo-R,
  - STE-QUEST,
  - PLATO
- Small mission in progress

## OVERVIEW OF INAF INVOLVEMENT IN SPACE PROGRAMS

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### ❑ ESA Optional Programs

#### Missioni Small

- ExoMars,
- Cassini/Huygens,
- Rosetta, MarsExpress,
- VenusExpress,
- Gaia,
- LISA-PF

### ❑ Other programs (NASA, JAXA, ROSCOSMOS, ETC..)

- Swift,
- MRO,
- Dawn,
- Fermi,
- Juno,
- NuStar,
- CALET,
- Millimitron

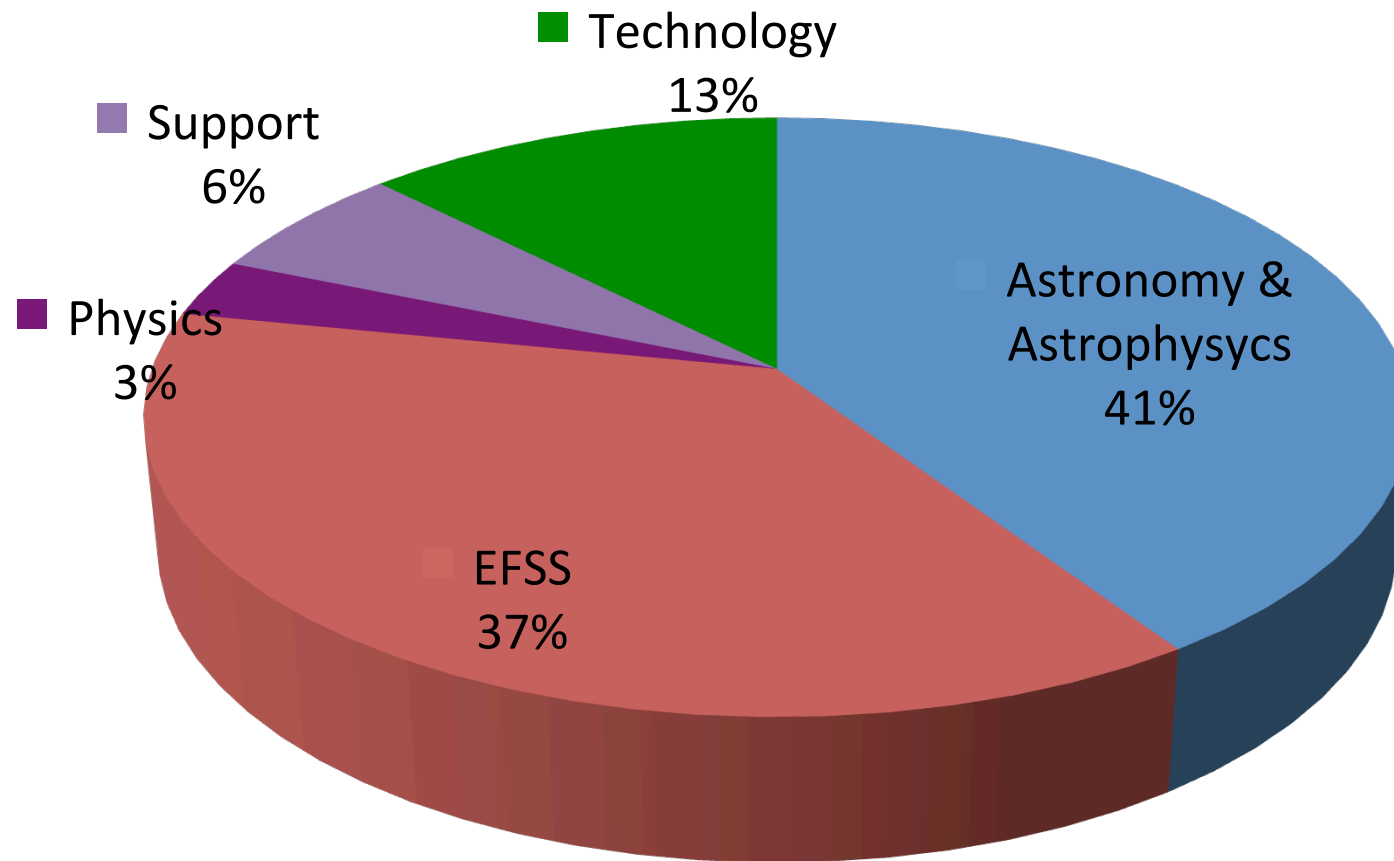
### □ National Programs

- AGILE
- AMS
- PAMELA
- LARES

## OVERVIEW OF INAF INVOLVEMENT IN SPACE PROGRAMS

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### □ Distribution by scientific area





INAF is one of leading players in developing the next generation of world-class facilities:

- ✓ E-ELT (1 B€)

Founding members of:

- ✓ SKA Organitazion Ltd (1,5 B€)

- ✓ CTA Organization Gmbh (0.2 B€)

### □ Policy issues

➤ Governance

➤ ROI

- Funding
- Procurement
- Observing time and data policy