



Dipartimento di Fisica e Astronomia  
dell'Università di Catania

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# CYCLOTRONS



18th International Conference on  
Cyclotrons and their Applications 2007

SEPTEMBER 30 - OCTOBER 5, 2007

Russott Hotel  
Giardini Naxos, ITALY



THOMAS COLE (1801-1848)



Istituto Nazionale  
di Fisica Nucleare

**ORGANIZED BY**

LABORATORI NAZIONALI  
DEL SUD OF CATANIA

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G. RUGGIERI (SECRETARY)

**TOPICS**

- . CYCLOTRON APPLICATIONS
- . NEWLY OPERATING CYCLOTRONS
- . OPERATIONAL CYCLOTRONS:  
DEVELOPMENTS AND STATUS
- . FACILITIES UNDER CONSTRUCTION
- . PROJECTS AND PROPOSALS
- . FFAG ACCELERATORS
- . ION SOURCES AND TARGETS
- . HIGH INTENSITY BEAMS
- . BEAM DYNAMICS
- . RADIO FREQUENCY SYSTEMS
- . MAGNET AND VACUUM SYSTEMS
- . BEAM TRANSPORT, DIAGNOSTICS  
AND CONTROL
- . RADIOACTIVE BEAMS

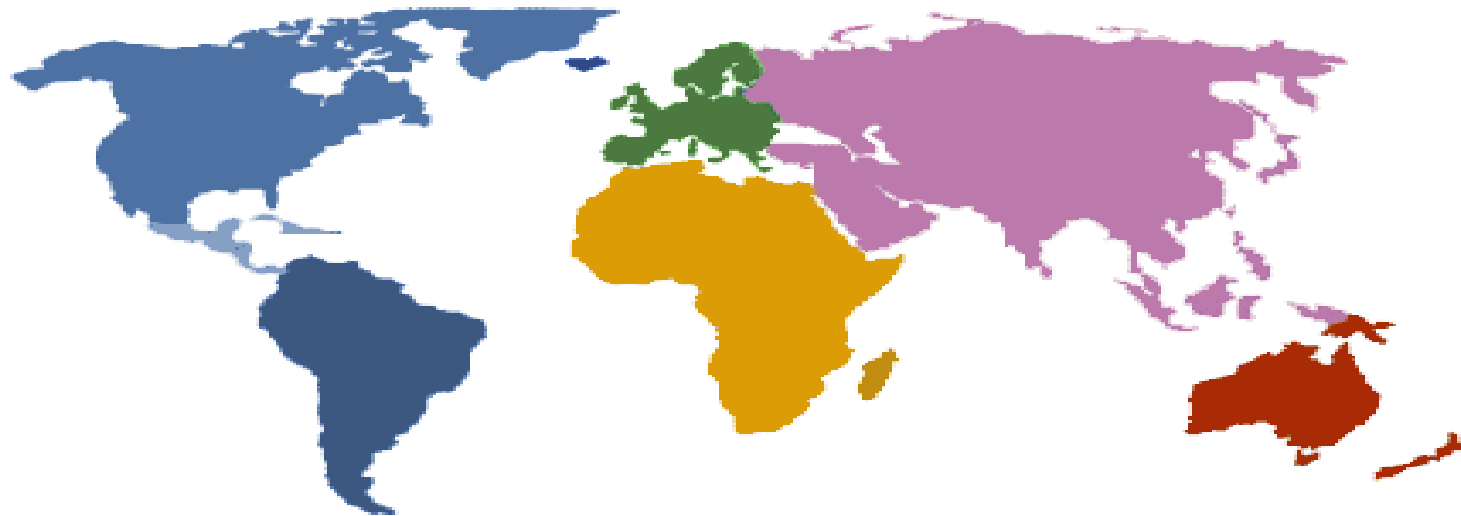


[www.lns.infn.it/cyclotrons2007](http://www.lns.infn.it/cyclotrons2007)



# Cyclotrons

The International Conference on Cyclotrons and their Applications (ICCA), note as Cyclotrons, is held every 3 years around the world (Europe, U.S.A., Asia) and reach people from different countries.



21-23 March 2007

JACoW Team Meeting

[piazza@lns.infn.it](mailto:piazza@lns.infn.it)

# Cyclotrons

## Cyclotrons series

Ref.	Place	Year	Host Organization	Registered Participants	Existing Cyclotrons
1	Sea Island	1959	ORNL	85	14
2	Los Angeles	1962	UCLA	139	21
3	Geneva	1963	CERN	146	42
4	Gatlinburg	1966	ORNL	224	61
5	Oxford	1969	AERE Harwell	202	72
6	Vancouver	1972	TRIUMF	195	70+17 FM†
7	Zurich	1975	SIN	231	74+14 FM†
8	Bloomington	1978	IUCF	205	95+14 FM†
9	Caen	1981	GANIL	225+GANIL Staff	106+11 FM†
10	East Lansing	1984	MSU	222	111+11 FM†
11	Tokyo	1986	INS, RIKEN, RCNP	206	131+12 FM†
12	Berlin	1989	HMI	213	131+9 FM†
13	Vancouver	1992	TRIUMF	241	199+7 FM†+4 C/B
14	Cape Town	1995	NAC	204	202+5 FM†+4 C/B
15	Caen	1998	GANIL	240	209+4 FM†‡
16	East Lansing	2001	MSU	185	85+3 FM†§
17	Tokyo	2004	RIKEN	210	91+3 FM†§

†FM: synchrocyclotrons ‡The list of cyclotron coolers and booster rings has been cancelled from 1998

§Numbers listed on the proceedings

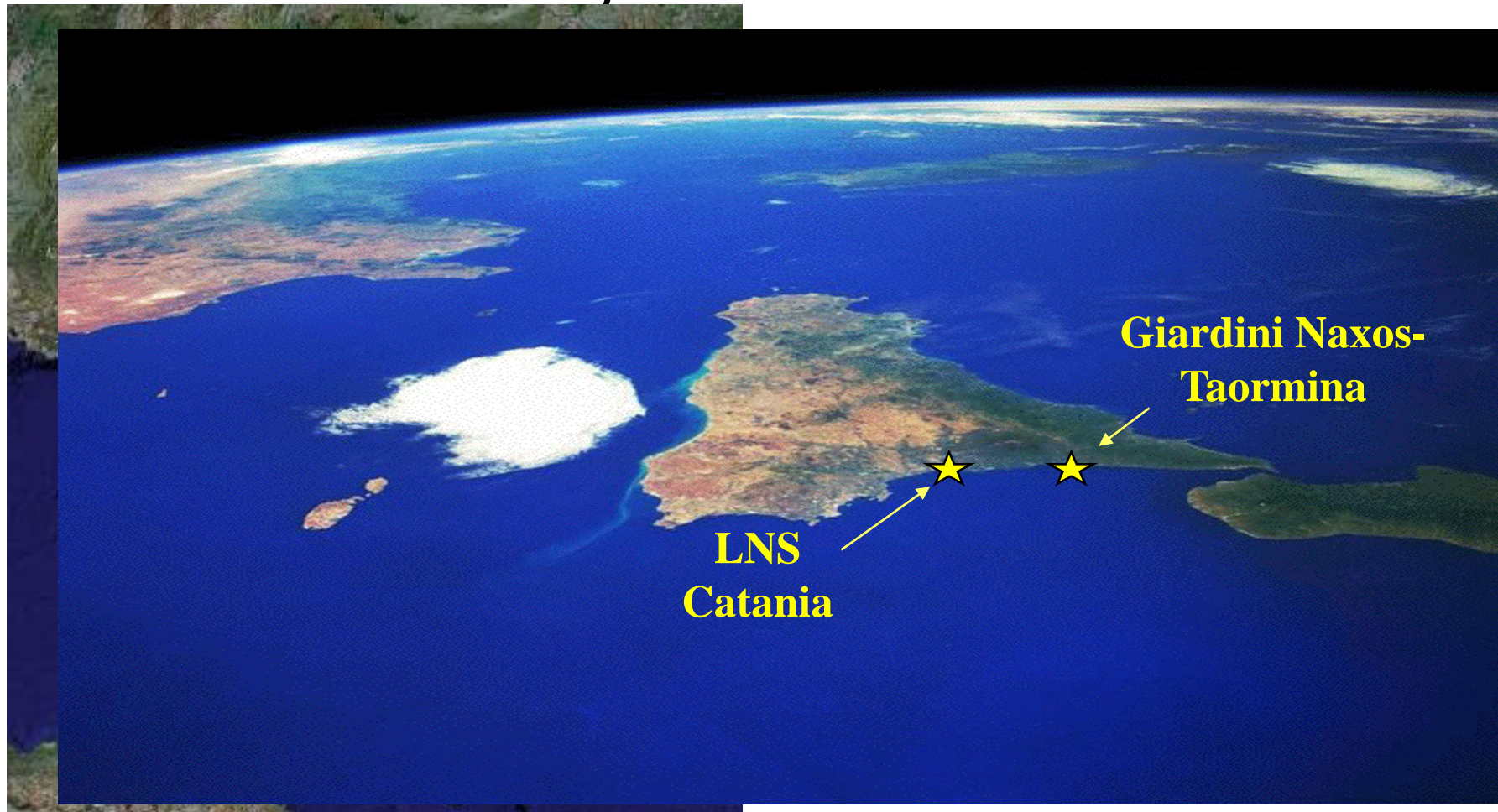
# Cyclotrons

Cyclotrons is generally focused on:

- advances in the science and technology of cyclotrons and related accelerators
- advances leading to more effective applications of these accelerator systems in other fields.

Thanks to Cyclotrons '04 group

# Cyclotrons '07



## Geographic location

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# CYCLOTRONS

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## What is new

- 30 September-5 October  
2007: Cyclotrons Conference

## Topics

- Cyclotron Applications
- Newly Operating Cyclotrons
- Operational cyclotrons: Developments and Status
- Facilities under construction
- Project and proposals
- High Intensity Beam
- Beam dynamics
- Radio Frequency Systems
- Magnet and Vacuum Systems
- Beam Transport, Diagnostics and Control



# CYCLOTRONS



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## Key dates

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- Conference : **September the 30<sup>th</sup> - October the 5<sup>th</sup>, 2007**
- First announcement : **January 15, 2007**
- Second announcement : **March 30, 2007**
- Call for Papers : **March 30, 2007**
- Deadline for Abstract : **April 30, 2007**
- Deadline for early registration payment : **August 10, 2007**

[Web Master](#)



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18th International Conference on  
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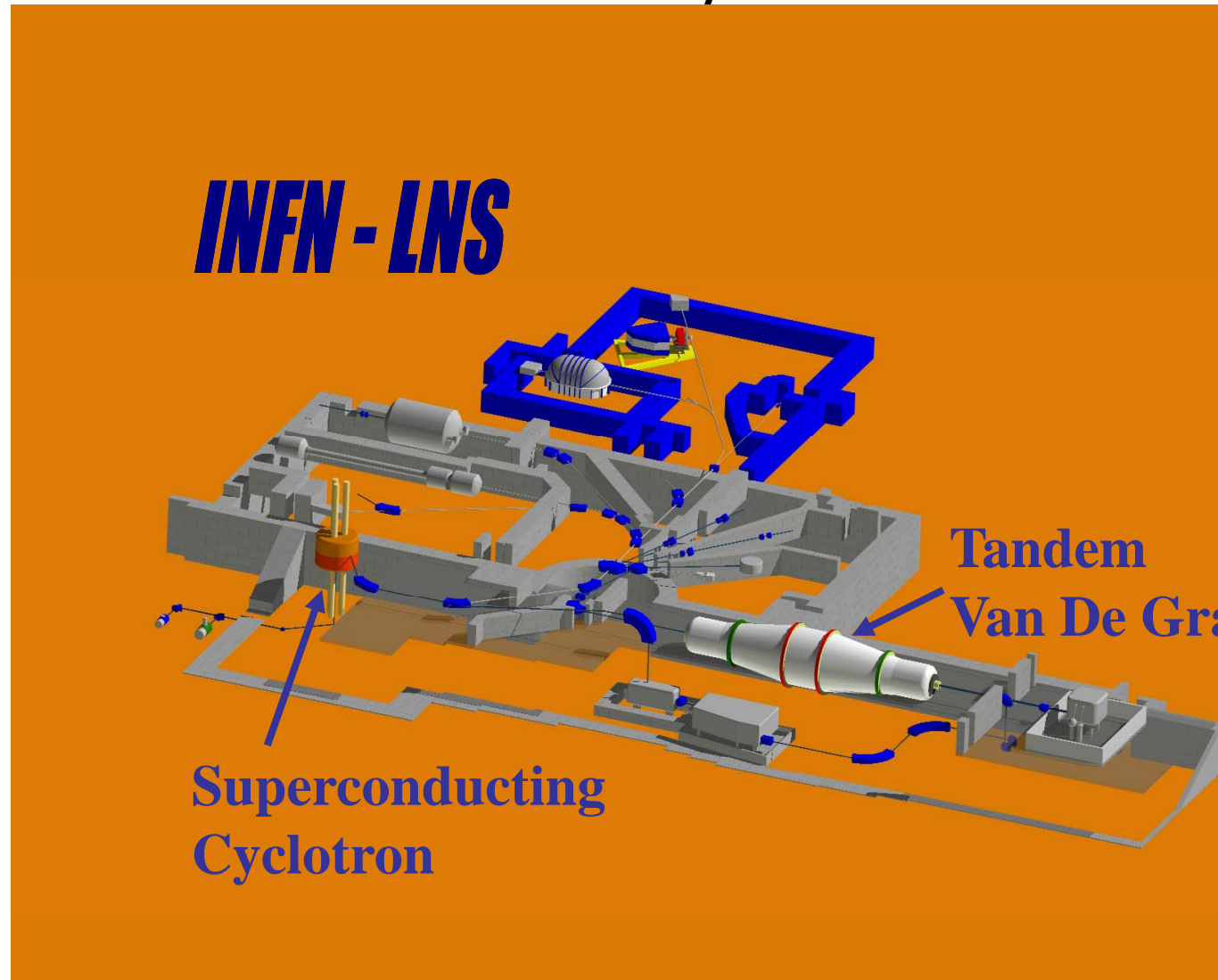


# LNS

The Laboratori Nazionali del Sud is one of the National Institute of Nuclear Physics INFN laboratory, founded in 1976 at Catania, that is undertaken in nuclear and sub nuclear physics research.

The construction and operation of a Superconducting Cyclotron, in 1994, combined with previous Tandem accelerator, allowed LNS to improve his research development.

# LNS layout



# JACoW support

- SPMS problems – see later
- Proceedings production and management and publication

## Thank You

# Some pics...



21-23 March 2007

JACoW Team Meeting

[piazza@lns.infn.it](mailto:piazza@lns.infn.it)

# Some pics...



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# Cyclotrons '07



## Amazing Etna

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# Cyclotrons '07



Acicastello & faraglioni

21-23 March 2007



Eolie Islands

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