



# Polvere di Stelle

THE CULTURAL HERITAGE OF ITALIAN ASTRONOMY

INAF



ISTITUTO NAZIONALE DI ASTROFISICA  
NATIONAL INSTITUTE FOR ASTROPHYSICS

## Polvere di Stelle

the Italian platform for data-sharing and data-preserving of modern and ancient astronomical resources

Mauro Gargano, Francesca Brunetti, Antonella Gasperini, Luisa Schiavone

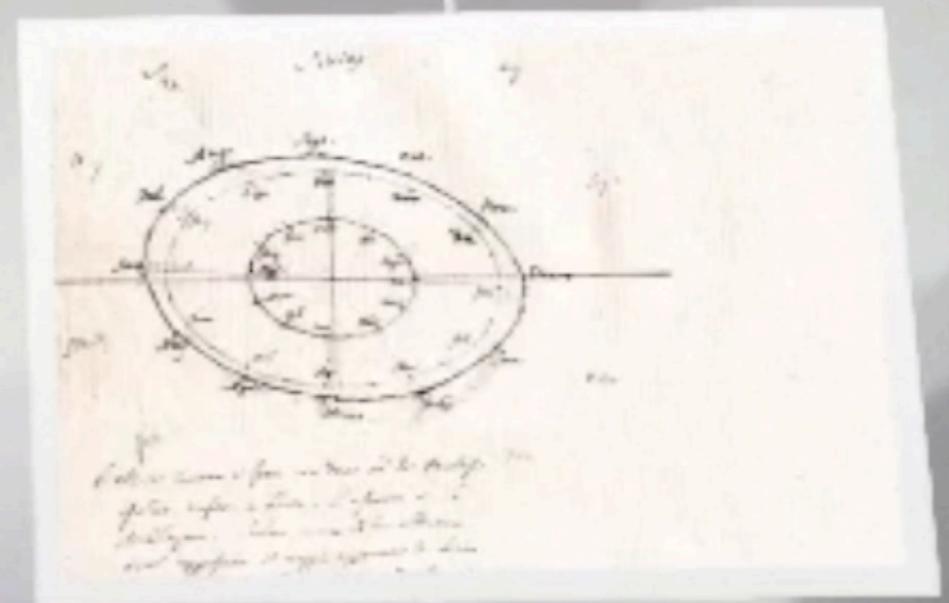
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LISA VIII, Strasbourg 8 June 2017

# THE BEGINNING

- In 2009 an innovative web portal of Italian astronomical archives was conceived
- In 2010 this new tool was presented at LISA VI in Pune
- 12 historical archives of Italian observatories were presented
- A database allows to search documents

# STARDUST PEARLS



The complete video on the INAF YouTube channel



# GROWING UP

- In 2013 the project grows up including Libraries, Museums and Archives
- In 2014 the upgraded web portal was presented at LISA VII in Naples
- 12 Observatories preserving the largest part of the astronomical heritage in Italy

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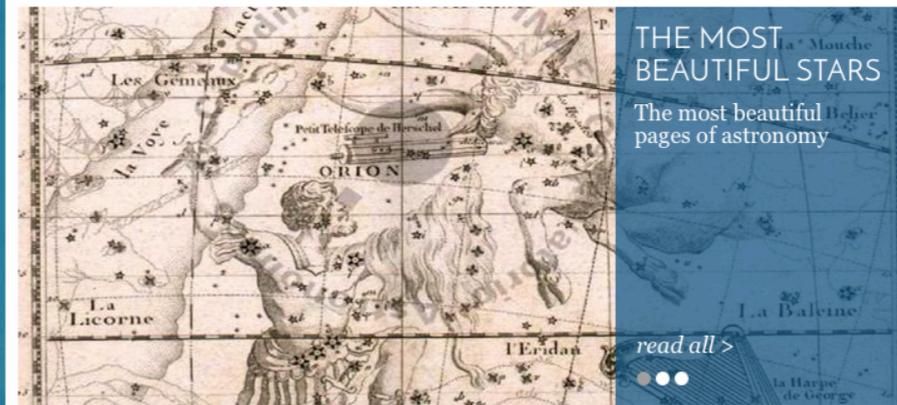
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polvere di stelle

THE CULTURAL HERITAGE OF ITALIAN ASTRONOMY

VERSIONE ITALIANA

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Quick Search in INAF's museums, archives and libraries

advanced search >

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Search

RESOURCES

Quick access to our archives

[Catalog of Libraries](#)

[Collection of Museums](#)

[Inventories of archives](#)



DIGITAL SHOWCASE



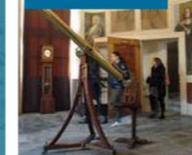
MEDIA INAF

The historical and scientific heritage of the National Institute for Astrophysics consists of books, archival documents and instruments which testify to the development of astronomy in Italy from pre-Galilean observations to the present time.

All these objects constitute one of the most interesting and valuable collection in the field of the history of science. They are evidence, in fact, of the astronomical research that took place throughout Italy during the past centuries, of the scientific results achieved, and also of the contributions given by Italian astronomers to the development and progress of astronomy.

FEATURED

MUSEUMS



OPEN YEAR-ROUND!

SPECOLA, THE ASTRONOMICAL OBSERVATORY OF PADUA

The Specola, once the main tower of the Carrarese Castle, transformed into the Astronomical Observatory in the 18-th century, captures all the charm of almost a thousand years of history of Padua and 250 years of astronomy.

[read all >](#)

MUSEUMS



FROM MONDAY TO FRIDAY

MUSA OF ASTRONOMY AND ART

A charming and fascinating journey through the instruments and ancient volumes hold by the Observatory of Naples.

[read all >](#)

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LIBRARY AND  
HISTORICAL  
ARCHIVE SERVICE  
Head : Antonella Casperini  
tel. +39 055 2752237  
fax +39 055 220039  
sba@inaf.it

MUSEUMS SERVICE  
Head : Valeria Zanini  
tel. +39 049 8293449  
fax +39 049 8759840  
musei@inaf.it

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# Ancient Books

The oldest Italian Observatories (Brera, Capodimonte, Padova e Palermo) have more than 7000 ancient Books published from 1470 to 1830, 30 Manuscripts (dated back to the early XIV century), 19 Incunabola, 551 Cinquecentine (16<sup>th</sup> century books).



# Astronomical Instruments

---

The ancient astronomical instruments collection of the Italian Observatories counts over 1200 items, from the 11<sup>th</sup> century to the first half of the 20<sup>th</sup>.

Exhibited in 13 museums, it consists mainly of quadrants, sextants, telescopes, theodolites, clocks, globes, mathematical instruments, and meteorological instrumentation.



# Ancient Documents

The historical archives of the astronomical observatories preserve the documents of some of the oldest scientific institutions in our country.

Over 3 million documents, 122 series containing the fonds of various astronomers are preserved in 12 historical archives

Armée  
d'Italie

Republique Française

N<sup>o</sup>

Liberté



Égalité

Au Quartier Général de l'Armée le 27 Thermidor  
Au 4<sup>e</sup> de la République Une et Indivisible.

Bonaparte, Général en Chef de l'Armée  
d'Italie

A un général en chef.

Je vous recommande particulièrement mon cher général la  
personne et les propriétés de Monsieur Cagnoli, habitant de  
Verone. c'est un astronome libre dont les travaux méritent  
votre respect.

Bonaparte

# Polvere di Stelle Framework

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### ARCETRI ASTROPHYSICAL OBSERVATORY LIBRARY

LIBRARY

Select another library



The Arcetri Astrophysical Observatory Library holds modern publications consisting of more than 12.000 books and a wide collection of periodicals, over 800 serials of which 108 have online access. The holdings cover the international astronomical and astrophysical research starting from about the 1950s. The collection includes theoretical and observational studies of the solar system, stellar physics, external galaxies, interstellar medium, high energy astrophysics and modern optics. The Arcetri Astrophysical Observatory Library is a part of the National Institute for Astrophysics (INAF) Library and Historical Archives Services.

Largo E. Fermi n. 5  
50125 - Florence  
055 2752321  
biblio@arcetri.inaf.it  
http://www.arcetri.astro.it/en

MENU

- Presentation
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- Catalogues
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- History of the Library
- Contacts

WHERE WE ARE

LAST ENTRIES

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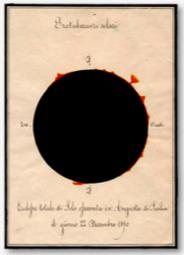
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### HISTORICAL ARCHIVES OF ASTRONOMICAL OBSERVATORY OF PALERMO

ARCHIVE

Select another archive



Over two hundred years of scientific activities are unfolded by the documents held in the historical archives of the Palermo Astronomical Observatory. It was established in 1790 through the will of Ferdinando III, King of Sicily, and realized by a mathematician from Valtellina, Giuseppe Piazzi (1746-1826), who was its first director.

The long and troubled history of the scientific institution, marked by peaks of excellence, declining phases or just mere survival, depending on the political, economic and cultural conditions and on the astronomers who worked there, could be written thanks to the wealth of information found in the historical archives.

The documents also give witness to the relationships existing between Palermo and various other institutions, such as, the other Italian astronomical observatories, the Italian Astronomical Society, or, at a local level, the Accademia de' Regi Studi (now known as the Università di Palermo) and the Real Casa (today, the Sicilian Parliament), the site where the Observatory has always been located.

The administration and account papers represent about one sixth of the entire body of documents. They include the correspondence series, i.e. the official letters sent to and received by the institution. Unfortunately, the letters pertinent to the establishment of the Observatory and its initial years are missing.

The inventory series is made of registers, lists and catalogues of furnishings, instruments and

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donata@oapa.inaf.it

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### MUSA - MUSEUM OF ASTRONOMICAL INSTRUMENTS

MUSEUM

Select another museum

Museum of Astronomical Observatory of Capodimonte

seguici su



#### 200 YEARS OF LIGHT

The MuSA is the unique state astronomical museum in South-Central Italy.

The valuable instruments collection of MuSA dates from mid-sixteenth to mid-twentieth century. It testifies the development of astronomical research that the Observatory of Naples has gone through and contributed to write. Every single brass and wooden element, every eyepiece, every graduated scale, every engraving and painting are also extraordinary and unique artworks.

The instruments of MuSA are a cultural heritage of a historical-documentary value to be admired for their technological perfection. They describe in a complete way the years of technical glory and scientific achievements as well as the critical periods for astronomical research. The museum path is made of instruments, places and images, and it allows a fascinating journey in the more than two centuries of the astronomy in Naples.

Among the many initiatives promoted in 2012 for the bicentenary of the Capodimonte Observatory Foundation, a new exhibition has been realized to give



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80131 - Naples  
+39 081 5575 111  
museo@oacn.ina.it

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  - Chronicles
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  - Journey into the past
  - In MuSA

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WHERE WE ARE

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# Our Databases

- A database for bibliographical description, circulation and library management of ancient and modern Books and Journals
- A database to catalogue ancient instruments, archival documents, photographs, artworks, manuscripts and biographies of Italian astronomers

**Pannello comandi**

**BIBLIOWin 5.0.2.0003**

- Catalogazione**
  - Schede
  - Catalogazione derivata
- Authority List**
  - Autori
  - Editori
  - Luoghi di pubblicazione
  - Soggetti - stringhe
  - Soggetti - descrittori
  - Classificazioni
  - Marche editoriali
  - Chiavi
  - Thesauro
  - Liste personalizzate
- Circolazione**
- Interbiblioteca**
- Strumenti**
- Gestione amministrativa**
- Configurazione**

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**Messaggi**

**SICAPweb**  
Sistema di catalogazione partecipata

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**CATALOGAZIONE**

Catalogazione > Guida alla catalogazione

**Guida alla catalogazione**

**ARCHIVIO DOCUMENTALE**  
Normativa ISAD(G)  
[ISAD \(G\): General International Standard Archival Description](#)  
Guida operativa  
[Visualizza la guida](#)

**OPERE D'ARTE**  
Normativa ICCD  
[SCHEDA OA \(1992\)](#)  
(La nuova normativa è in preparazione)

**PATRIMONIO SCIENTIFICO E TECNOLOGICO**  
Normativa ICCD  
[SCHEDA PST](#)

**FOTOGRAFIA**  
Normativa ICCD  
[SCHEDA F](#)

Seleziona

- ✓ Opere d'arte
- Patrimonio scientifico e tecnologico
- Fotografie
- Archivio documentale
- Manoscritti
- Astronomi

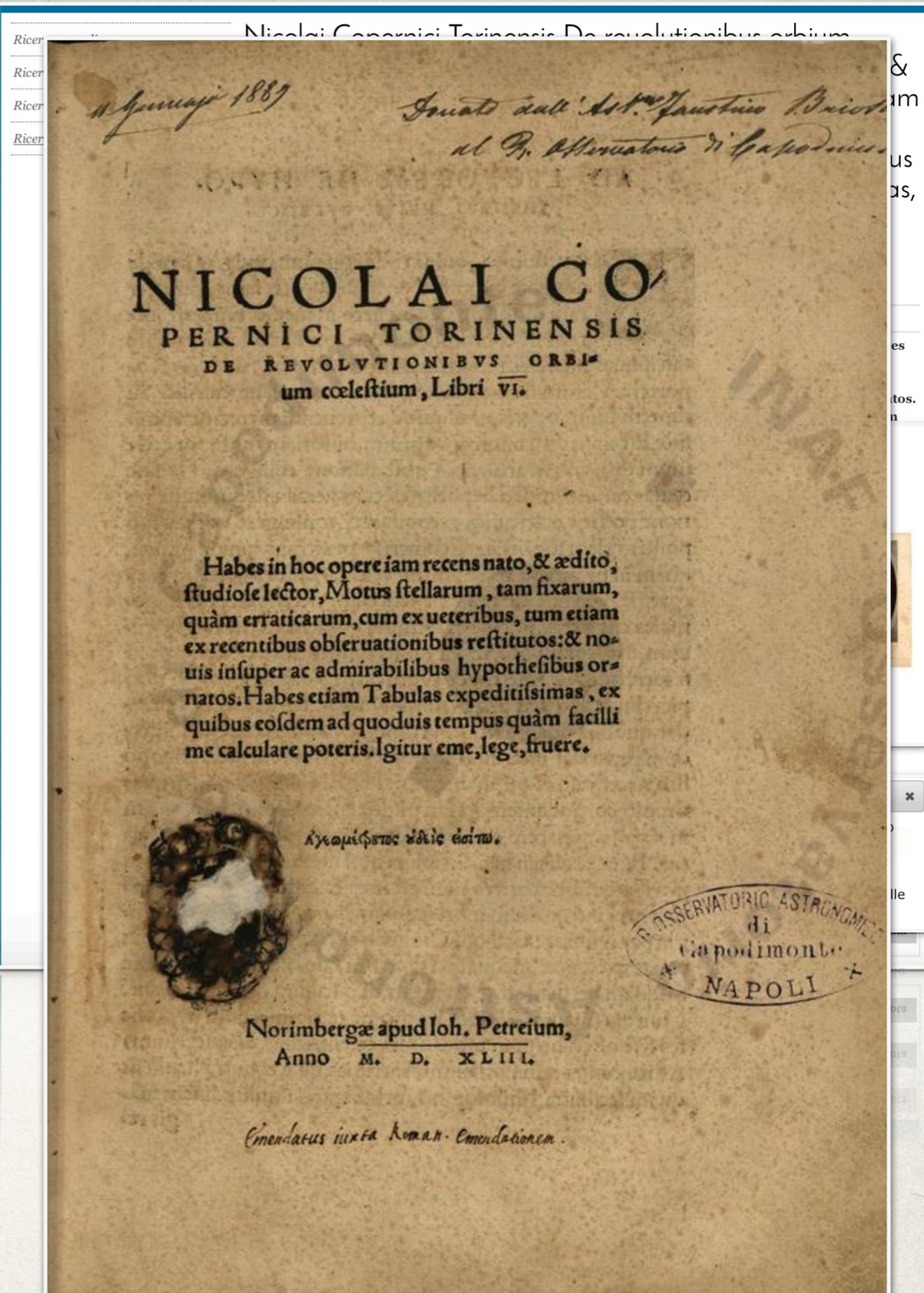
5 [inserite](#)

5 [modificate](#)

Memo Title [vuoti] Title [tutti]

# Books on OPAC

- Bibliographic record
- Authors and Publishers biographic records
- Printer's mark description
- Specimen notes
- Digital copy



# Leafing through Rare Books

A selection of 194 up to 7000  
valuable books

100,000 pages

150 DPI watermarked

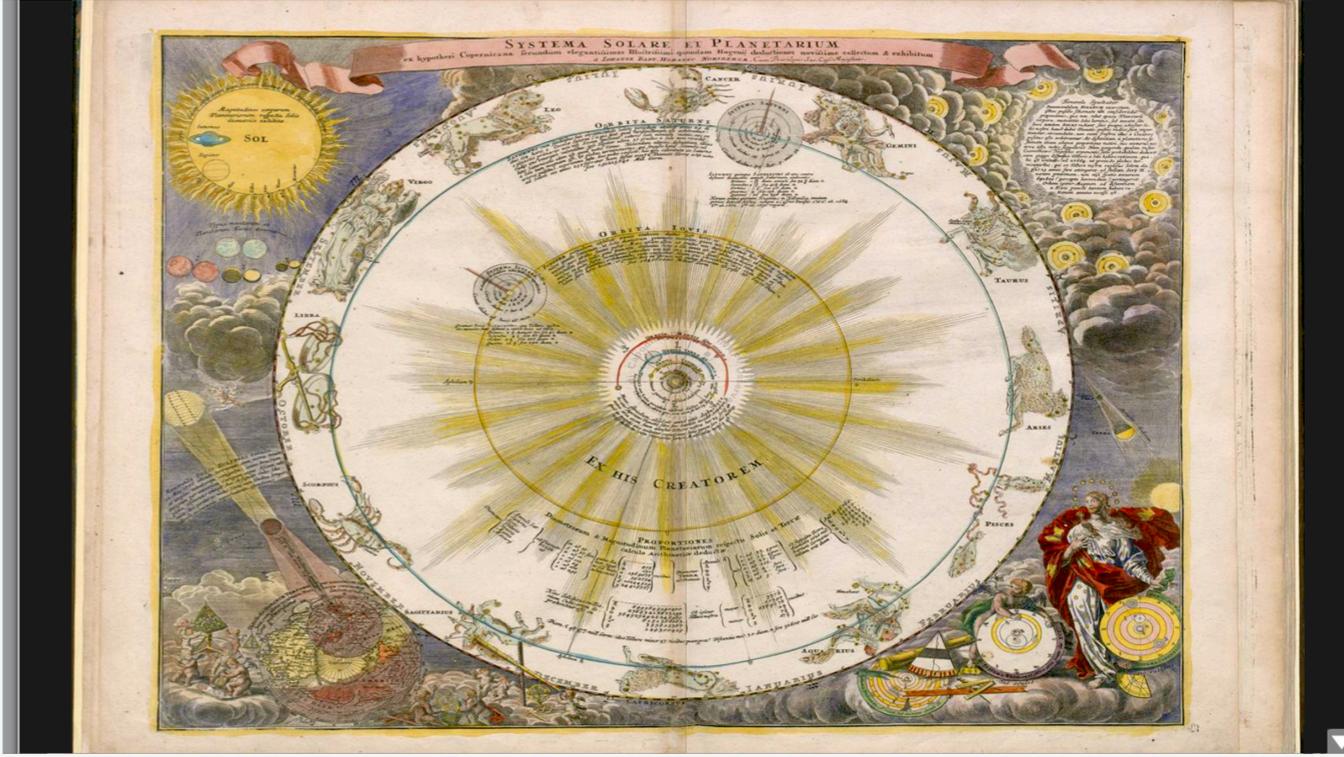
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to the MAG Standard 2.0.1

## DIGITAL SHOWCASE

LIBRARIES

The INAF libraries are developing a project to study, catalogue, and digitize the ancient

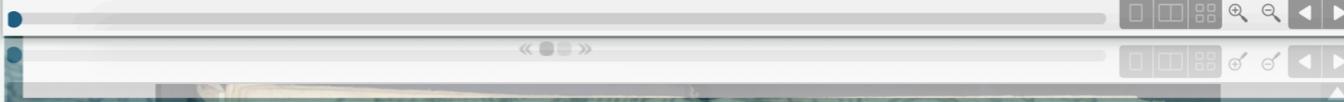
[Atlas novus coelestis in quo mundus spectabilis, et in eodem tam errantium quam inerrantium stellarum, phaenomena notabilia, circa ipsarum lumen, figuram, faciem motum, eclipses, occultationes, transitus, m...](#)  
doppelmaier, johann gabriel



Pagina 21 di 142



[Cosmographiae vniuersalis lib. 6. in quibus iuxta certioris fidei scriptores, sine omni cuiuscumque molestia, uel laesione, describuntur. Omnium habitabilis orbis partium situs propriaeque dotes. Regionum topographic...](#)  
munster, sebastian



# Biographical Catalogue of Astronomers

The development of astronomy through the biographical portraits of scientists who worked and observed in Italy.

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I BENI CULTURALI DELL' ASTRONOMIA ITALIANA

ENGLISH VERSION

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CREDITS

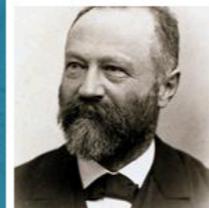
## ASTRONOMI

### CATALOGO BIOGRAFICO DEGLI ASTRONOMI

L'astronomia attraverso i ritratti biografici degli studiosi di astronomia che hanno lavorato, osservato in Italia.

#### HIGHLIGHTS

Ricerca astronomi...



GIUSEPPE LORENZON  
Rolle di Cison di  
Valmarino (TV), 10  
luglio 1843 - Padova, 7  
luglio 1914



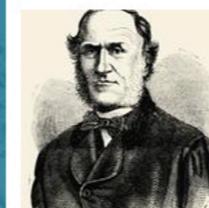
ANNIBALE DE  
GASPARIS  
Bugnara, 9 novembre  
1819 - Napoli, 21  
marzo 1892



GIUSEPPE PIAZZI  
Ponte in Valtellina, 16  
luglio 1746 - Napoli, 22  
luglio 1826



AZEGLIO BEMPORAD  
Siena, 19 marzo 1875 -  
Catania, 11 febbraio  
1945



ERNESTO CAPOCCI  
BELMONTE  
Picinisco, 31 marzo  
1798 - Napoli, 6  
gennaio 1864



CARLO BRIOSCHI  
Milano, 15 agosto 1781  
- Napoli, 29 gennaio  
1833



GIAMBATISTA  
BECCARIA  
Mondovì, 3 ottobre  
1716 - Torino, 27  
maggio 1781



WILHELM TEMPEL  
Niedercunnersdorf, 4  
dicembre 1821 -  
Firenze, 16 marzo 1889



#### RICERCHE IN ARCHIVIO

[Calendario eventi](#)

[Ricerca avanzata](#)

[Archivio eventi](#)

#### TAG CLOUD

Astronomical  
Observatory of  
Capodimonte

Osservatorio  
Astrofisico di Arcetri

Osservatorio  
Astronomico di  
Capodimonte

Osservatorio  
Astronomico di  
Padova



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# Interlinked Records

- Astronomer's biographic records
- Ancient instruments descriptions
- Craftsmen biographies
- Archives documents records and their digital copies
- External links to bibliographical databases

RICERCA SEMPLICE RICERCA STRUTTURATA

## Franz Xaver von Zach

DATI BIOGRAFICI

INTESTAZIONE

Nome Zach, Franz Xaver von

Nazionalità tedesca

Estremi cronologici Pest, 4 giugno 1754 - Parigi, 2 settembre 1832

Qualifica astronomo



ALTRI ALLEGATI



ATTIVITA' E BIOGRAFIA

NOTIZIE BIOGRAFICHE Figlio di un famoso medico attivo tra Bratislava e Pest, nel 1769 sviluppò un acuto interesse per l'astronomia, osservando il passaggio del pianeta Venere sul Sole e della cometa *che non rassomiglia a nessuna di quelle conosciute*, scoperta da Me

RICERCA SEMPLICE RICERCA STRUTTURATA

### Telescopio equatoriale di Fraunhofer

CODICI  
ID SCHEDA 401

RELAZIONI  
codice scheda n. 13, (G. Busarello, V. Fiore e P. Paura, 1992)  
progressa n. 12, (E. Stendardo, 2001)  
n. 41, (M. Gargano, 2012)

OGGETTO  
definizione Telescopio rifrattore  
tipologia Telescopio  
parti e/o accessori un cercatore  
denominazione Telescopio equatoriale di Fraunhofer

ALTRA DEFINIZIONE OGGETTO  
definizione Refractor telescope  
tipologia Telescopio  
codice lingua ENG

CATEGORIA  
Categoria principale Astronomia

LOCALIZZAZIONE  
DESCRIZIONE  
descrizione oggetto Telescopio rifrattore equatore in tubo di allungamento di 15'. Il primo obiettivo è un obiettivo di tipo I. I cerchi sono stati lavorati nel motore orario funzionante. Il tubo del telescopio è in ottone. Sui due anelli che fissano il telescopio, è fissato un cerchio di allungamento dell'obiettivo. La montatura equatoriale è intorno a due assi: uno perpendicolare al primo.

funzione Usato per osservazioni visive  
modalità d'uso La montatura equatoriale è intorno a due assi: uno perpendicolare al primo.

DESCRIZIONE  
Georg Friedrich von Fraunhofer

INTESTAZIONE  
Nome Reichel  
Nazionalità tedesca  
Estremi cronologici Durlach.

ATTIVITA' E BIOGRAFIA  
Notizie biografiche Fu prof della Geometria al Politecnico di Monaco. Figlio di un medico divenne studioso di matematica. Dal 1786 si occupò della tecnica ottica. Nel 1800 costruì il primo spettroscopio. Al suo ritrovamento del spettro solare è dovuto il metodo di individuazione delle linee spettrali.

Lavori di fabbrica per la costruzione di un telescopio equatoriale di Fraunhofer

GERARCHIA  
Istituto Napoli  
Fondo Archivio Storico  
Serie Sede 1812 - 1948  
Sottoserie Lavori di fabbrica e di disegno  
Fascicolo Lavori di fabbrica. C

IDENTIFICAZIONE  
DESCRIZIONE  
Livello Unità archivistica  
Titolo proprio Lavori di fabbrica per la costruzione di un telescopio equatoriale di Fraunhofer

DATAZIONE  
Secolo XIX  
Frazione secolo primo quarto  
Da 1812  
A 1814  
Specifiche datazione 1812-1814

ISTITUZIONE ARCHIVISTICA  
Denominazione Osservatorio Astronomico di Brera

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### Vesuvius mons à deux Lieues de Naples

CODICI  
ID Scheda 19

OGGETTO  
Definizione Veduta  
Tipologia Incisione  
Denominazione Vesuvius mons à deux Lieues de Naples

AUTORE  
Nome scelto Blaeu, Joan  
Tipo intestazione P  
Nome scelto Mortier, Pieter  
Tipo intestazione P

DATI ANALITICI  
DESCRIZIONE  
Indicazioni Esempio tratto dal "Nouveau Theatre de l'Italie", una serie di incisioni in cartografo olandese del XVII sec. Jean Baptiste de La Caille e Pierre Mortier, 1702. Incisa e pubblicata nei primi anni del XVIII sec. da

adsbeta

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

Advanced (author:"zach, baron" author:"zach, franz xaver")

Your search returned 32 results

Author custom filter Publication custom filter sort: Date asc Export Explore

AUTHORS  
Zach, F 32  
Bertuch, F 6  
Gaspari, A 6  
Bradley, J 1  
David, M 1

COLLECTIONS  
astronomy 32

REFEREED  
non-refereed 31  
refereed 1

KEYWORDS  
PUBLICATIONS  
BIB GROUPS  
SIMBAD OBJECTS

Show abstracts

1 1792fpcn.book....Z 1792  
Fixarum praecipuarum catalogus novus ex observationibus astronomicis in specula astronomica Gothana annis 1787-1790  
Zach, Franz Xaver

2 1792tmsn.book....Z 1792  
Tabulae motuum SOLIS novae et correctae EX theoria gravitatis et observationibus recentissimis eratae.  
Zach, Franz Xaver

3 1798age..book....Z 1798  
Allgemeine geographische Ephemeriden, 1 - 3  
Zach, Franz Xaver; Gaspari, A. C.; Bertuch, F. J.

4 1799inag.book....G 1799  
Neuester Himmels-Atlas : zum Gebrauche für Schul- und akademischen Unterricht, nach Flamsteed, Bradley, Tob. Mayer, de la Caille, le Francois de la Lande und v. Zach, in einer neuen Manier, MIT doppelten schwarzen Stern-Charthen bearbeitet  
Goldbach, Christoph Friedrich; Zach, Franz Xaver

0 selected

Years Citations Reads

■ refereed ■ non refereed

# Preserve and Share

- IA2's informatics structure is based on the virtualization and cloud paradigm, hosts data from the ground-based Italian telescopes and offers proprietary and public data access through user portals and Virtual Observatory (VO) services
- IA2 has set up a platform to create a national repository for the digitized copy of ancient books and archival documents, as well as the astronomical data
- 3 different resolutions: 150 DPI for the publishing on web with a watermark on each page; 300 and 600 DPI for preservation and for scientific and historical research

**IA2** Italian Center for Astronomical Archives  
Centro Italiano Archivi Astronomici

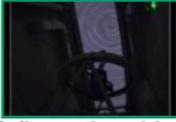
Home Services Projects Software Additional Info IA2 Group

IA2 (Italian center for Astronomical Archive) is an Italian Astrophysical research e-infrastructure project that aims at co-ordinating different national initiatives to improve the quality of astrophysical data services. It aims at co-ordinating these developments and facilitating access to this data for research purposes. The IA2 is supported by INAF since 2005. IA2's main goals consist in data archiving systems and safety, including data hosting and data curation and preservation, data and metadata distribution over geographical sites, access services including publication within the VO scenario. IA2 provides also services and tool to the community, like data sharing (owncloud), project management (redmine), software collaboration (git-lab) and has available a workflow manager (Yabi) for computational needs.

[contact us](#)

### SERVICES collapse [-]

**ARCHIVES**

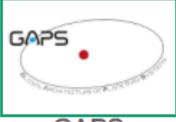
<b>MAIN</b>	 TNG (here the old data)	 LBT	 Asiago	 Serra La Nave	 Medicina / Noto
<b>HOSTED</b>	 Byurakan	 INES	 BaSTI	 TIRGO? / REM?	 other archives @ INAF

**OTHER SERVICES**

 ownCloud	 redmine	 VO initiatives	 GitLab	 yabi
---	--	---	---	---

### PROJECTS collapse [-]

IA2 has been and is involved in national and EU funded projects, spanning various topics of interest.

<b>CURRENT</b>	 H2020 ASTERICS	 H2020 INDIGO	 H2020 AENEAS	 PRISMA	 GAPS
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For its archiving, publishing and computational activities IA2 staff developed also tools and software packages. Follow the links for further details.

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