

Forum della Ricerca Sperimentale e Tecnologica in INAF
Bologna, 22-24 giugno 2022

Science Data Segment @ IRA

Sessione: Science Data Segment
Speaker: Alessandra Zanichelli
Istituto di Radioastronomia

Competenze, progetti, persone (overview)

- ALMA Regional Centre italiano
- Commissioning scientifico di radio telescopi e strumentazione
- Preparazione, esecuzione, analisi di osservazioni radioastronomiche
- Archivi dati, interoperabilità, Virtual Observatory



ALMA Regional Centre italiano



EUROPEAN ARC
ALMA Regional Centre || Italian

Support to ALMA community

Proposal preparation
Contact Scientist during observations
Data reduction
Archive mining
Face-to-face support; Helpdesk

Direct user support

Education & Outreach

Computing facilities

Workshops & training schools
University courses
Supervision of PhD & master students

13 Servers
64-256 GB RAM
318 TB storage space

Support to ALMA project

Long-Baseline and polarisation campaigns
Data calibration, imaging; quality assessment

Commissioning and data quality assurance

ARC node
Network activities

Working groups & development programs

ALMA Science Archive
mmVLBI
Polarisation

I-TRAIN
Talks
Meetings
Update documentation

ARI-L

<https://www.alma.inaf.it>
help-desk@alma.inaf.it

ALMA Regional Centre italiano



Team



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Commissioning scientifico di radiotelescopi e strumentazione

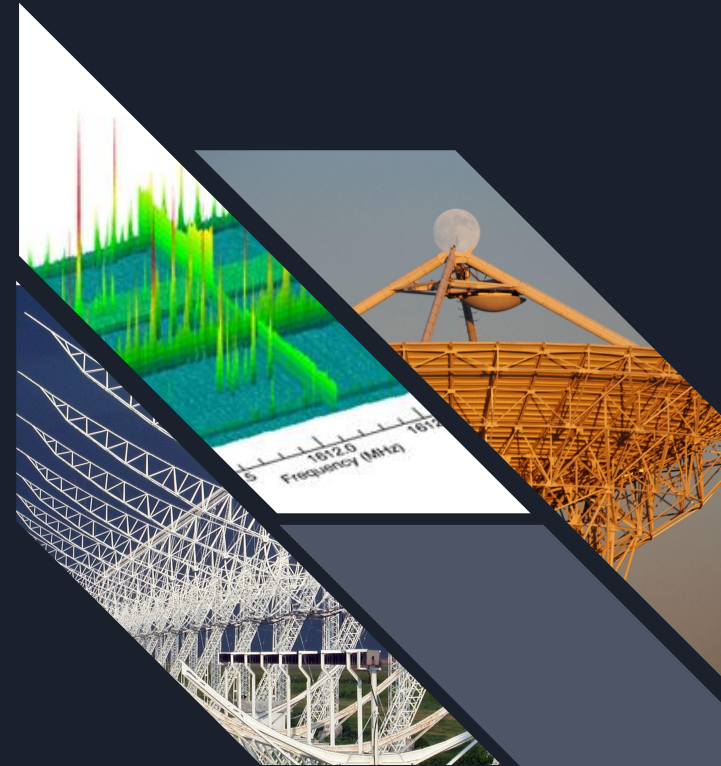
- Astronomical Validation del Sardinia Radio Telescope
- Scientific commissioning di frontend e backend (ricevitore multifeed 18-26 GHz, backend Total Power e XArcos, spettropolarimetri digitali)

IRA Staff

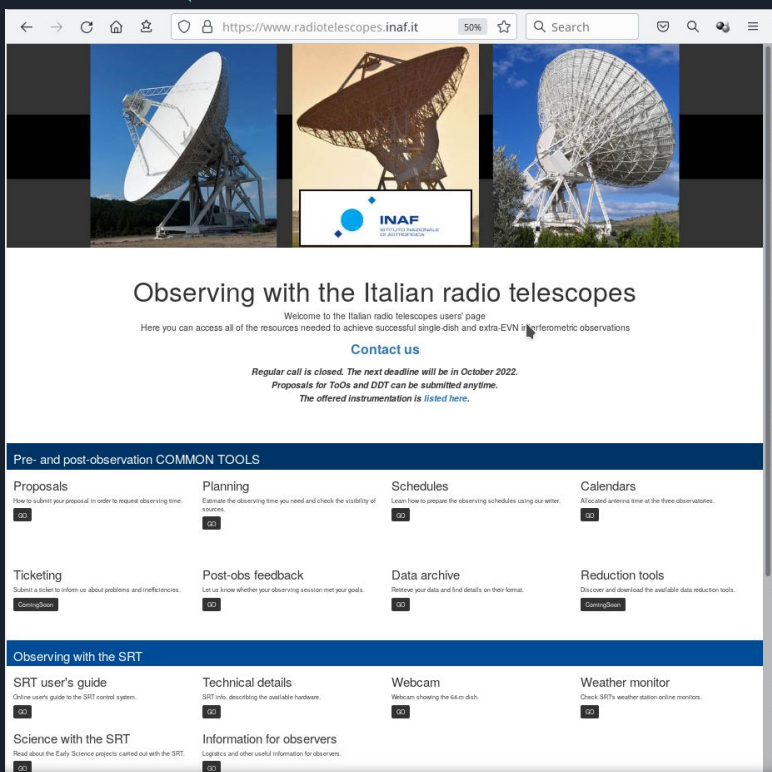
J. Brand, E. Carretti, K.-H. Mack, A. Orlati, I. Prandoni, R. Ricci, S. Righini, A. Zanichelli

OAC Staff

SRT AV Team



Preparazione, esecuzione e analisi di osservazioni radioastronomiche



https://www.radiotelescopi.inaf.it

Observing with the Italian radio telescopes

Welcome to the Italian radio telescopes users' page
Here you can access all of the resources needed to achieve successful single-dish and extra-EVN interferometric observations

[Contact us](#)

*Regular call is closed. The next deadline will be in October 2022.
Proposals for ToOs and DDT can be submitted anytime.
The offered instrumentation is listed here.*

Pre- and post-observation COMMON TOOLS

Proposals How to submit your proposal in order to request observing time. Go	Planning Estimate the observing time you need and check the visibility of sources. Go	Schedules Learn how to prepare the observing schedules using our writer. Go	Calendars Allocated antenna time at the three observatories. Go
Ticketing Submit a ticket to inform us about problems and inefficiencies. Coming soon	Post-obs feedback Let us know whether your observing session met your goals. Go	Data archive Retrieve your data and find details on their format. Go	Reduction tools Discover and download the available data reduction tools. Coming soon

Observing with the SRT

SRT user's guide Online user's guide to the SRT control system. Go	Technical details SRT info, describing the available hardware. Go	Webcam Webcam showing the 04 m dish. Go	Weather monitor Check SRT's weather station online monitors. Go
Science with the SRT Read about the Early Science projects carried out with the SRT. Go	Information for observers Logistics and other useful information for observers. Go		

- User tools e supporto per osservazioni SD e VLBI con i radiotelescopi INAF
- Sito web: **www.radiotelescopi.inaf.it**

IRA Staff

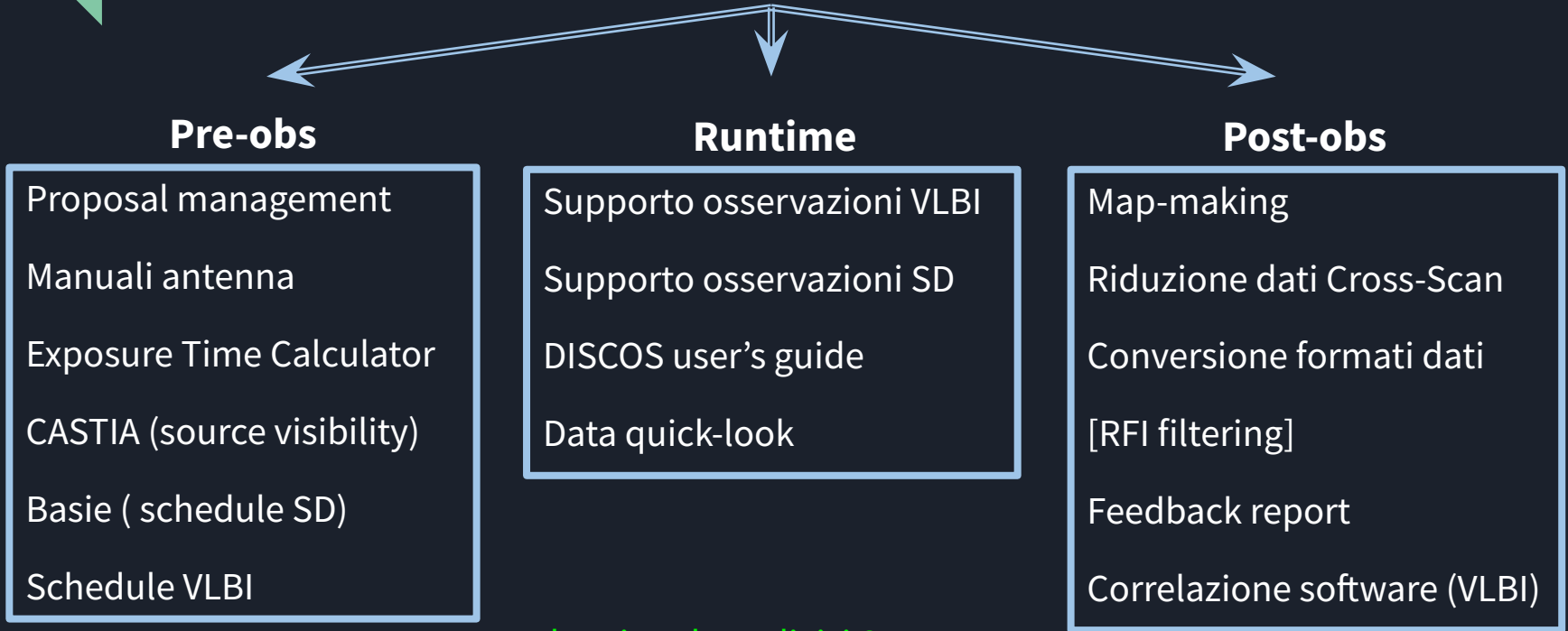
M. Baldini, F. Bedosti, C. Bortolotti, A. Maccaferri, G. Maccaferri, K.-H. Mack, A. Orlati, B. Neri, S., Righini, M. Roma, M. Stagni, F. Tinarelli, A. Zanichelli



Contributi da OAC



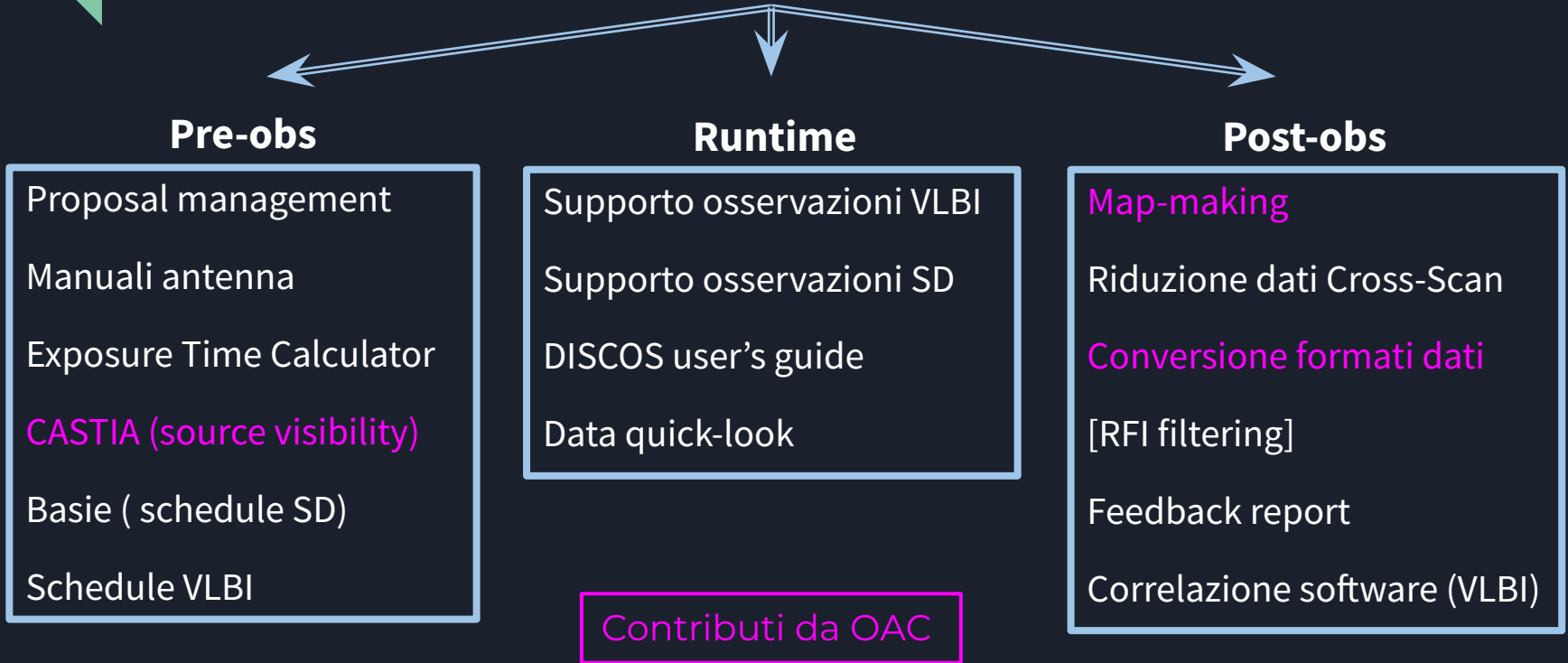
Preparazione, esecuzione e analisi di osservazioni radioastronomiche



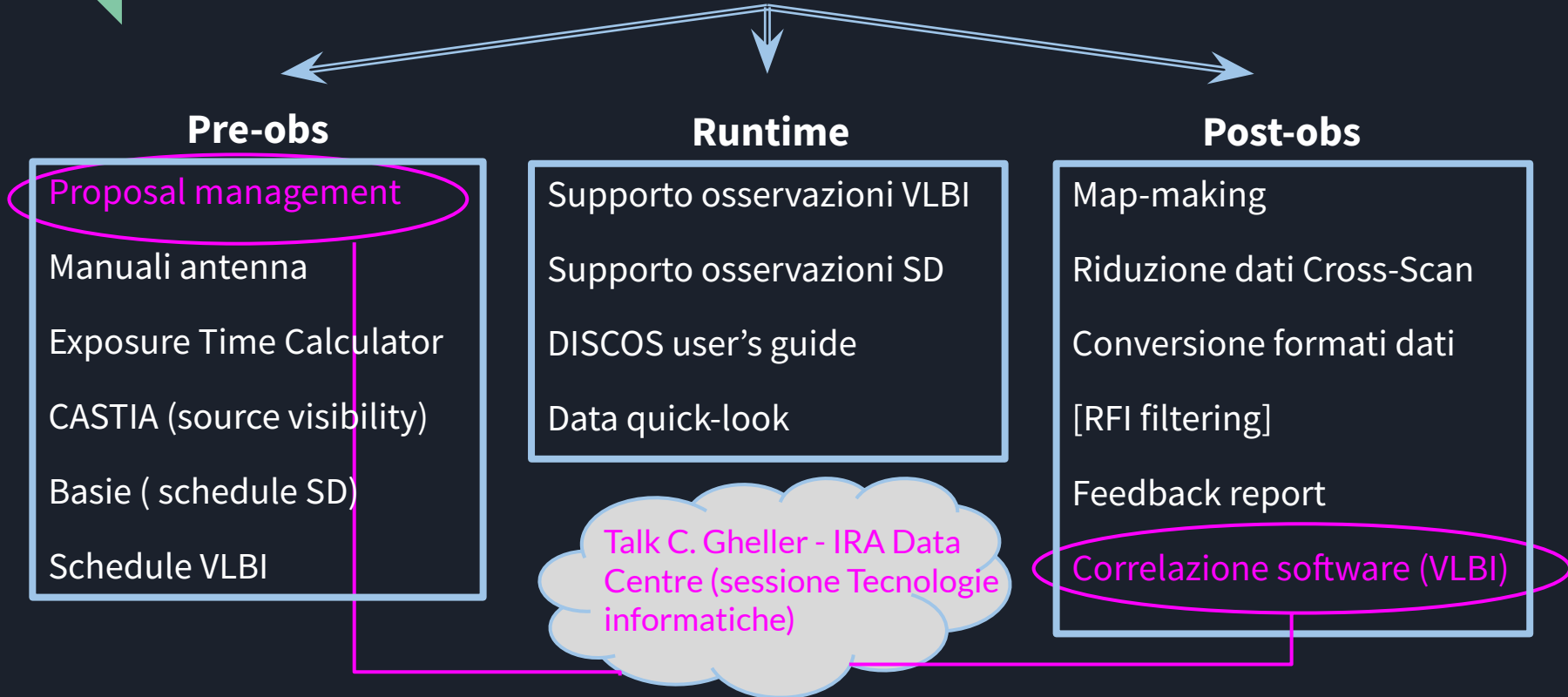
Alcuni tool condivisi SD e VLBI



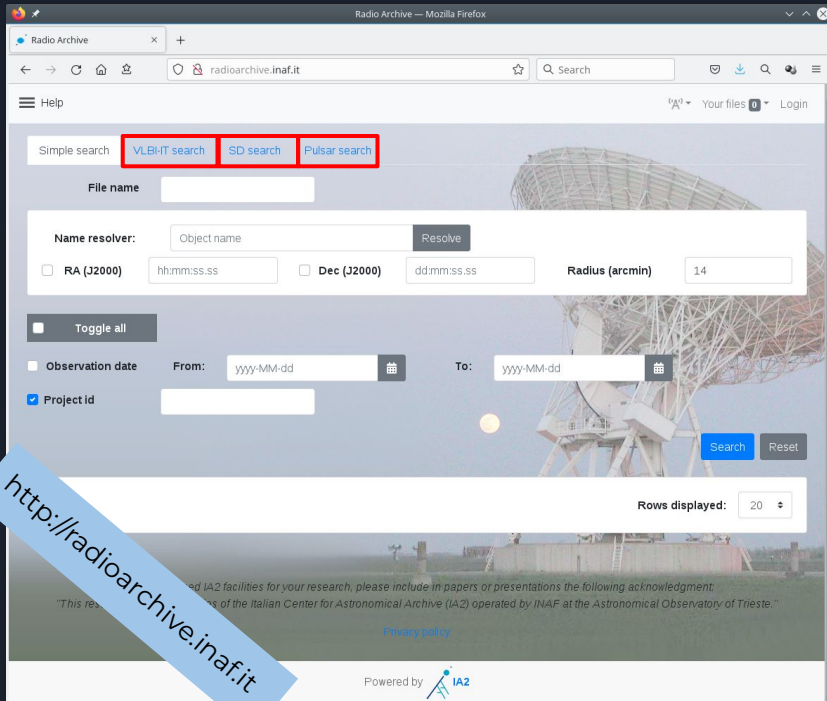
Preparazione, esecuzione e analisi di osservazioni radioastronomiche



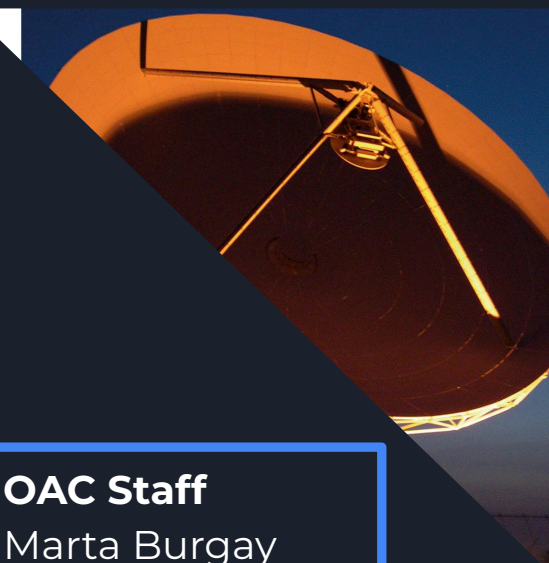

Preparazione, esecuzione e analisi di osservazioni radioastronomiche



Archivi dati, interoperabilita', Virtual Observatory



- Archivio dei radiotelescopi INAF
- Formati di dati, interoperabilita' e principi FAIR
- IVOA Radio Interest Group. Definizione di standard datamodel per la banda radio
- Prototipazione di Science Gateway



Archivi dati, interoperabilita', Virtual Observatory

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Grazie per la vostra attenzione