

Report from event supported by RadioNet

Title	Exploiting Archives for Radio Astronomy in the SKA era
Date:	November 23-25, 2020
Location:	ONLINE
Meeting webpage:	https://www.iastro.pt/research/conferences/radionet2020/
Host Institute:	UMAN & IA
RadioNet beneficiary / no:	UMAN//06

Report:

Conference Web Page: <https://www.iastro.pt/research/conferences/radionet2020/>

1. Scientific summary

1.1 Scientific Summary

The initial goals of this workshop were to give an overview of the capabilities, development, and user support for archival research in the main worldwide radio facilities. In particular, invited speakers involved in archival research and tool developments within the European VLBI Network (EVN), the Low-Frequency Array LOFAR, the enhanced Multi-Element Remotely Linked Interferometer Network (e-MERLIN), and the Advanced European Network of E-infrastructures for Astronomy with the SKA (AENEAS), have illustrated the state of the art of the current database, showing the tools available in each web-platform to retrieve and analyse the data.

1.2 RadioNet relevance

The workshop involved directly members of the European VLBI Network (EVN), the Low-Frequency Array LOFAR, the enhanced Multi-Element Remotely Linked Interferometer Network (e-MERLIN), and the Advanced European Network of E-infrastructures for Astronomy with the SKA (AENEAS).

The synergy with the AENEAS consortium has located this workshop in the framework of the Horizon 2020 project, paving the way to future developments of the archive in the context of foreseen SKA data flow.

1.3 Impact

In our view, this workshop will increase the usage of archive related science produced with RadioNet facilities. In the SKA perspective, the event has contributed to promote the activities developed within the AENEAS consortium.

2. Agenda of the event

MONDAY 23-11-2020 (PT-UK time)

8:50-9:00 - Welcome

9:00-9:45 - Vincenzo Galluzzi (INAF - Osservatorio Astronomico di Trieste): The AENEAS survey of radio archives: use cases and UI recommendations

9:45-10:30 - Felix Stoehr (ESO): Alma archive

10:30-10:45 - Coffee break

10:45-11:30 - Marcella Massardi (INAF): ARI-L project in the ALMA archive

11:30-12:00 - Eva Sciacca (INAF Osservatorio Astrofisico di Catania): Visual Analytics services for the SKA-era on the Cloud - NO

TUESDAY 24-11-2020 (PT-UK time)

9:00-9:45 - Paul Harrison (Jodrell Bank, University of Manchester):

Virtual Observatory participation at Jodrell Bank

9:45-10:30 - Raphael Shirley (University of Southampton): HELP: The Herschel Extragalactic Legacy Project

10:30-10:45 - Coffee break

10:45-11:30 - Mark Lacy (NRAO): Radio data in the Virtual Observatory

11:30-12:00 - Andrew Humphrey (IAU. Porto): Identifying Passive Galaxies at High-z using a Nonlinear Fusion of Classifiers

12:00-12:30 - Máté Krezinger (Eötvös Loránd University, Hungary): A compact symmetric object hidden in the archives

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WEDNESDAY 25-11-2020 (PT-UK time)

9:00-9:45 - Rob Beswick (e-MERLIN/Jodell Bank centre for Astrophysics): TBD

9:45-10:30 - Zsolt Paragi (JiVE): Introduction to the EVN, user support, products, and an overview of the data calibration pipeline.

10:30-10:45 - Coffee break

10:45-11:30 - Marco Iacobelli (ASTRON): The LOFAR Long Term Archives (LTA)

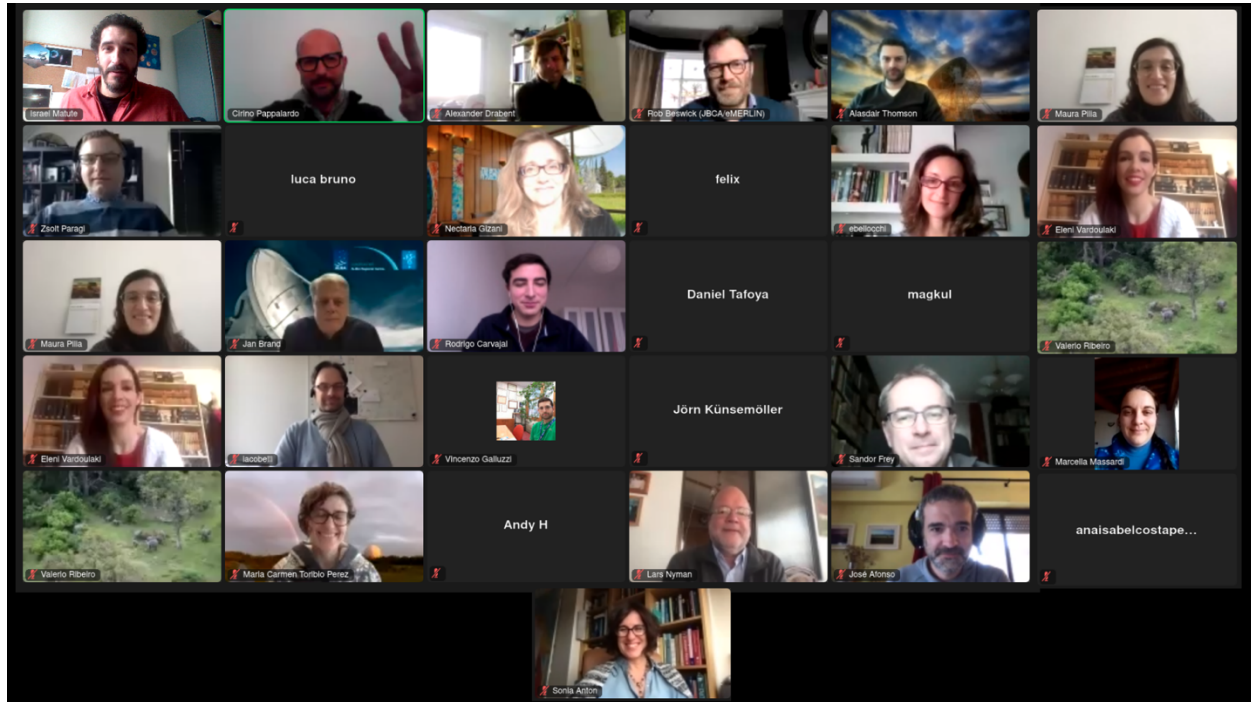
11:30-12:00 - Nectaria Gizani (Hellenic Open University): The Hellenic Radio Telescope THERMOpYlae

12:00 - 12:15 - Antonio Dias - Enhanced data products for ALMA archive

12:00-12:30 - Conclusions

3. Participants

We had 70 participants spanning a wide range of nationalities, from USA to Korea, passing from India. Most of the participants were from Europe, about 90%, with many participants from East Europe (e.g. Hungary, Poland). More than 30% of participants were women.



4. RadioNet financial contribution

RadioNet had granted this event with 5.000€ for financial support of 5 trainees & 4 trainers from UMAN and INAF. Due to COVID-19, the conference was modified and changed to an online format. Therefore, there are no costs to ask for reimbursement from RadioNet.

5. Publications

The project leading to this publication has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730562 [RadioNet]

6. Confirmation

Following the Regulation (EU) 2016/679 - General Data Protection Regulation-, we confirm that RadioNet is allowed to publish this report, incl. participants lists, statistic's details, pictures, etc..