2022 European Radio Interferometry School

Third Announcement ERIS 2022

Dear Participants,

The ERIS 2022 School will start next week. We are looking forward to welcoming you all to Dwingeloo! The School will be held at ASTRON & JIVE, at a remote location in the beautiful Dwingelderveld National Park. We hope that you all figured out your travel details (and visa, if necessary). This announcement has a few updates that may be relevant to your travel plans and for the School itself. But please keep an eye on the ERIS web site as well in case there are new updates (https://www.jive.eu/eris2022). For the important actions see the *** highlights *** below.

Please find attached the final program of ERIS. This includes individual lectures and lecture+tutorials, with hands-on data reduction exercises. During the first three days of the school all of you will work together. You will get to know the principles of radio interferometry and data reduction, and modern radio interferometric arrays will be introduced briefly. On Thursday we will form four groups to follow advanced tutorials on these topics: LOFAR (m-wave/wide-filed), e-MERLIN (cm/polarisation), EVN (cm/VLBI), ALMA (mm/spectral line) data reduction. Most of the work will be done in CASA. You may want to start thinking about your favourite advanced tutorial already.

*** To download and install CASA, see the instructions below. ***

Please do this before arriving here! Part of the advanced VLBI tutorial will be done in Difmap (interested participants will receive information on this later; we will provide an easy-to-install VM package).

During the ERIS you will be asked to form small groups that will work out ideas for observations with one or more instruments, including (but not only) non-radio observatories. There will be a lecture to help you decide which instrument to use, depending on the science case. At the end of the school the groups will present their proposal ideas. Volunteers to lead these groups will be selected during the first day of ERIS.

*** Start thinking about a proposal idea already, and volunteer to lead a group, and others will join you! ***

How to download data and the tutorials

The tutorial downloads can be found on https://www.jb.man.ac.uk/DARA/ERIS22/

This includes a quick 'how-to' install CASA for Linux and Mac OS. Note that you will need the python3.8 version installed because the python3.6 version has some issues for the VLBI advanced tutorial. A small tutorial on testing your CASA installation is included as well, please do this before arriving:

https://www.jb.man.ac.uk/DARA/ERIS22/casatest.html

The individual datasets to downloaded are the following:

Intro to data + calibration -
https://www.jb.man.ac.uk/DARA/ERIS22/data/ERIS22_calibration_tutorial.tar.gz
Imaging + self-calibration -
https://www.jb.man.ac.uk/DARA/ERIS22/data/ERIS22_imaging_tutorial.tar.gz
Advanced imaging -
https://www.jb.man.ac.uk/DARA/ERIS22/data/ERIS22_adv_imaging_tutorial.tar.gz
AT4 polarisation -
https://www.jb.man.ac.uk/DARA/ERIS22/data/ERIS22_AT4_polarisation.tar.gz

Meals/Dinners

You can have breakfast in your hotel. During the school we will provide lunch, and two dinners (on Monday and on Thursday, with limited drinks included). For the other evenings you will have to arrange for your own dinner, either in your hotel, or other restaurants in Dwingeloo. We will provide a list of possible places when you are here. You will receive a rental bicycle on Monday. The town is a short ride from your hotel.

Logistics

Please inform us (eris2022@jive.eu) of your arrival time in Hoogeveen so we know how many persons to expect for the free shuttles. The free shuttles to Hotel de Borken are leaving Hoogeveen railway station at 13:30, 16:00, 18:00 and 20:00.

Please keep an eye on the ERIS web page for updates.

Weather

September is usually mild in The Netherlands with daily temperatures varying between 8-18 degrees Celsius. Light rains and some sunshine are expected; please bring warm clothing and raincoat with you.

COVID

The pandemic is very much present in The Netherlands but the BA.5 variant of the virus causes less severe symptoms and the hospital admission numbers are steeply going down. We would like to ask you to test yourself and *** NOT travel if you are infected ***. We advise everyone to bring FFP2 masks (and use them as much as possible during ERIS) and bring self-test kits as well. This is to protect yourself and each other. The local COVID regulations in the Netherlands are below.

*** Please note you need to provide a proof of vaccination if you arrive from a country outside of Schengen area.***

Check for the details here:
https://www.government.nl/topics/coronavirus-covid-19/visiting-the-netherlands-from-abroad/checklist-entry

EU socket type

If you are from a country that is not using an EU-type socket, please bring an EU adapter! The Type C plug (sometimes called the "Euro-plug") consists of two round parallel pins while the wall plug has two holes where it is connected.

We are looking forward to a fruitful school in Dwingeloo!

Best regards,

ERIS Organizers

ERIS 2022
Ninth European Radio Interferometry School
19-23 September 2022, Dwingeloo, The Netherlands

Scientific Organizing Committee

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Alasdair Thompson (U. Manchester)
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Topics covered

- Calibration and imaging of interferometry data (continuum, spectral line, polarization)

- Observing techniques with various arrays (e.g. LOFAR, e-MERLIN, EVN/VLBI, ALMA & NOEMA)

- How to plan and propose for observations

www.jive.eu/eris2022

Periodic activity in the central supermassive black hole in Hercules A produces the beautiful structures in its giant lobes
Credit: R. Timmerman; LOFAR & Hubble Space Telescope

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