



Tutorial: Introduction to Radio Astronomy

Wednesday 12 January, 2022

9:30am – 13:30pm East Africa Time (or GMT+3)

(virtual)



In collaboration with:



Tutorial description:

- Part 1: Fundamentals of radio astronomy (basics of physics of radio emission mechanism and radio telescope fundamentals).
- Part 2: Single-dish data processing (using as an example data from HartRAO 26m telescope, South Africa).

Requirements:

- A laptop with Internet connection.
- Data to be downloaded in advance.
- python 2.7 installation (modules required are numpy, matplotlib, scipy, astropy and glob).

Trainer: Prof. James Chibueze (NWU, South Africa)

Organiser: Prof. Mirjana Pović (ESSTI, Ethiopia)

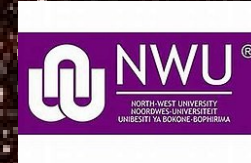


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Prof. James Chibueze did his Bachelor of Science in Physics (First Class) and Master of Science (Astrophysics) at Department of Physics & Astronomy, University of Nigeria. He then proceeded to Japan for his PhD (Radio Astronomy and Astrophysics) at Kagoshima University, Kagoshima, Japan (PhD received 25 March, 2013) under the Japanese Government MEXT scholarship. His research is mainly focused on the high-resolution study of massive star formation processes from their earliest evolutionary stages. James joined East-Asia ALMA Regional Centre at the National Astronomical Observatory of Japan (NAOJ) as Project Research Fellow in 2013 and later in 2014 was appointed a Project Assistant Professor. In 2015, he moved to University of Nigeria as a Lecturer and 2 years later (January, 2017) moved to South African Radio Astronomy Observatory (SARAO) formerly known as Square Kilometre Array (SKA) South Africa as a VLBI Commissioning Scientist. In 2019, he joined North-West University as an Associate Professor and was promoted to a full Professor of Astrophysics from January 1, 2022.

In recent years, James has used the MeerKAT telescope to expand his research horizon to include the study of radio galaxies and galaxy clusters.

Prof. James Chibueze

