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Investigating the Variability of Sources in the Data from the Karoo Array Telescope. U. Mbou Sob, S.K.Sirothia, T. Glober, O. Smirnov

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Abstract content (Max 300 words) **Formatting & Special chars**

Variability of radio sources is one of the bottlenecks for source counting in radio astronomy. Earlier studies of source variabilities suggest that these are related to the intrinsic nature of the source or to poor calibration. Since then, researcher have not make further contributions to clarify the suggestion and classify sources into two categories namely; those for which the variation is directly related to calibration impact and those for which there are an intrinsic property. In this presentation we investigate this problem using real observations of the same field of view taken consecutively over a period of two years with the Karoo Array Telescope (KAT-7). This will be done by extracting corresponding sources from these observation and statistically analysing the flux densities for the brightest of these sources.

Keywords: source counting, calibration, field of view, flux density, KAT-7.

Apply to be considered for a student award (Yes / No)?

Yes

Level for award (Hons, MSc, PhD, N/A)?

MSc

Main supervisor (name and email) and his / her institution

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