



Contribution ID: 70

Type: **not specified**

Studies of the Characteristics of the Extended Quasar 0735+17 and the Distribution of Extragalactic Sources Around It

Thursday 19 June 2025 18:20 (20 minutes)

The identifications of radio sources with angular sizes greater than $20''$ with quasars are not definite. Quasars cannot be radio sources with such large dimensions. They are very compact not only in the optical domain but also in the radio domain. The reason these radio sources are identified with quasars is due to the presence of a compact radio source within the extended radio source, which is identified with a specific quasar. The work presents the spectral and structural characteristics of the 0735+17 quasar. We also describe the distribution of other quasars around this quasar. A large number of quasars are found within a 6-degree radius of 0735+17, which is sufficient for statistical analysis. The data on the distribution of quasars in that area do not support the assumption that the quasars are homogeneously distributed. However, it is equally difficult to conclude that the distribution is not homogeneous.

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Session Classification: Oral Session S19-2