

**EXTENDED IONIZED-GAS STRUCTURES
IN SEYFERT 2 GALAXY MRK 78**

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A detailed study of extended emission-line regions (EELRs) related to AGNs in early-type galaxies is interesting to probe the history of the AGN ionization activity and also to understand the process of the external gas accretion. In this work, we present the observations of the EELR in Mrk 78 obtained at the 6-m Russian telescope. The gas kinematics and ionization state were considered using the long-slit and 3D spectroscopy data to understand the origin of gas structures.