

Cross-calibration of SMBH Masses Using X-SHOOTER Spectroscopy

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Özet

We perform multi-wavelength analyses of nearby Seyfert galaxies, which are observed as a part of Local Luminous AGN with Matched Analogues (LLAMA) project. The analyses include UV and optical VLT/X-SHOOTER spectral data of X-ray selected most luminous local Seyfert 1 galaxies. In this study, we aim to obtain SMBH masses by using H_α scaling relations and compare our results with M-sigma plane. FWHM results of H_α of our sample galaxies are found to be in a wide range ($1450 < \text{FWHM}_{H_\alpha} < 6400 \text{ km s}^{-1}$), which results in a range of black hole masses: $6.3 < \log \text{MBH} < 7.6 M_\odot$. Resulting BH masses are compared with stellar dispersions, which is measured from CA-Triplet emission line. In our preliminary results, we conclude that the majority of our Seyfert 1 galaxies host disk-like bulges, namely pseudo-bulges.

Anahtar Kelimeler: galaxies: active, Samanyolu, Galaksiler, Kozmoloji

Editör Notu:

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Erişim:

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