The origins of double-peaked AGN emission lines in the Sloan Digital Sky Survey

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Abstract

Via follow-up optical longslit and high-resolution radio imaging, we have determined the sources of double-peaked AGN emission lines for the complete sample of 71 double-peaked AGN at z< 0.1 in the Sloan Digital Sky Survey. We find that they are produced by dual AGN, rotating disks, and AGN outflows. We model the AGN outflows and find that the majority are energetic enough to suppress star formation in their host galaxies, which suggest that double peaks are biased towards large velocity, energetic outflows.

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