

Discovery and Follow-ups of an Unprecedented SMBH Binary Candidate Predicted to Merge within Three Years

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We have recently discovered the first ever SMBH binary candidate approaching final coalescence in a nearby Seyfert 1 galaxy at redshift 0.08. The discovery was made by its unprecedented chirping flares, which predicts a merger time within three years according to our trajectory model (Jiang et al. 2022, arxiv:2201.11633). Since its discovery, extensive multi-wavelength follow-up observations have been conducted, including massive X-ray observations by Swift, XMM-Newton, NuSTAR, Chandra and NICER. We will introduce the discovery and latest observational progresses on the unique system.

Topic

活动星系核与超大质量黑洞

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