

The restless nature of AGN: 10 years later



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AGN Variability: A ZTF perspective

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The Zwicky Transient Factory (ZTF) has been surveying the visible sky above Dec = -30 on a 2-3 night cadence in g , r , and I for the past five years. With a 5σ detection limit of $g = 20.5$, this provides hundreds of thousands of nightly real-time public alerts as well as well-sampled light curves for over 3 billion sources. This is an unparalleled data set for both anomaly detection and population studies of many astrophysical classes but it has been particularly fruitful for supermassive black holes: both the tens of tidal disruption events found around quiescent systems but also detecting new types of phenomena in active systems. In this talk, I will review what insights ZTF is providing into the AGN Zoo with changing state quasars, ambiguous nuclear transients, and EM counterparts to stellar mass black hole mergers as well as the more general properties of the AGN population.

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