

Catching supermassive black holes with Rubin-LSST: Towards novel insights and discoveries into AGN science

Contribution ID: 2

Type: **not specified**

The 2024 State of the LSST AGN Science Collaboration

Monday, 22 July 2024 10:00 (20 minutes)

The Vera C. Rubin Observatory's Legacy Survey of Space and Time (LSST) will enable studies of the growing supermassive black holes in active galactic nuclei (AGNs) on a truly massive scale. The LSST AGN Science Collaboration (SC), currently composed of 190 members spanning the globe (and rapidly growing), aims to lead many of these investigations and is preparing for AGN science with the petabyte deluge of LSST data that will begin in mid-late 2025. I will first briefly summarize the history, membership, and organization of the AGN SC. I will then highlight its recent and ongoing activities, including contributing to survey cadence optimization, gathering and analyzing preparatory data sets, forecasting science results with simulations, serving on key working groups and committees, and performing outreach to the scientific community and general public. I will finally discuss future plans and describe how interested members of the worldwide astronomical community can become involved.

Funding request, please specify

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Session Classification: Rubin-LSST AGN Science Collaboration