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Reverberation Mapping of AGN on a sub-daily cadence

Intense accretion disc reverberation mapping of nearby AGN

Multi-year programme: 2(+) years

Swift

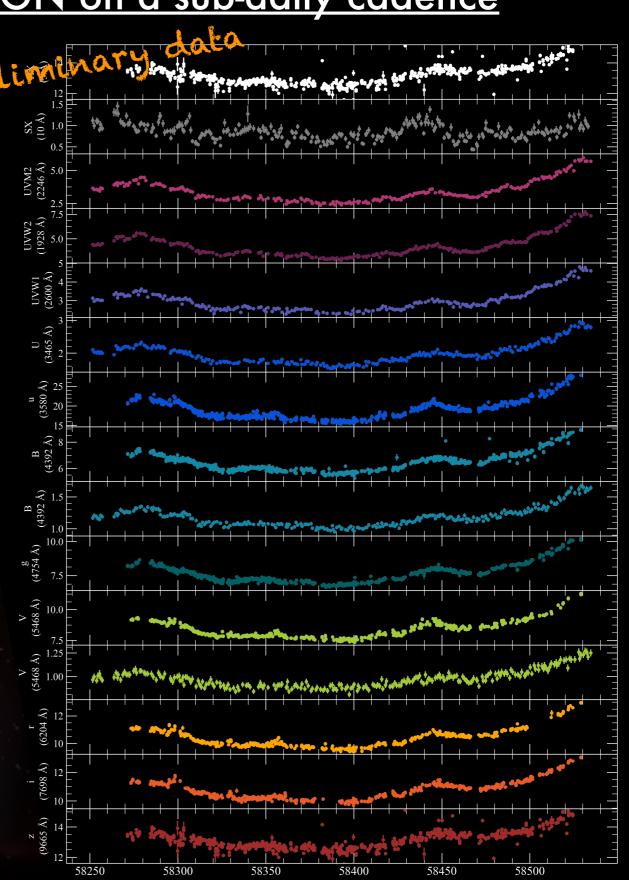
X-ray + 6 UV/optical filters (1 per day)

Las Cumbres Observatory (LCO)
7 UV/optical bands (~1-3 per day)

Test case:

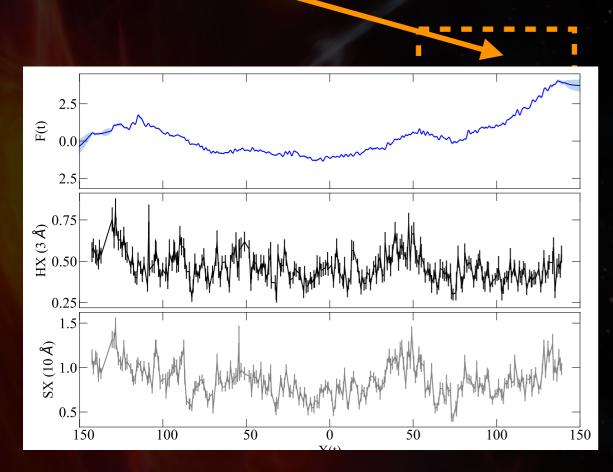
Fairall 9

- Are discs bigger than predicted?
- What is the SED of the disc?



Accretion disc reverberation mapping

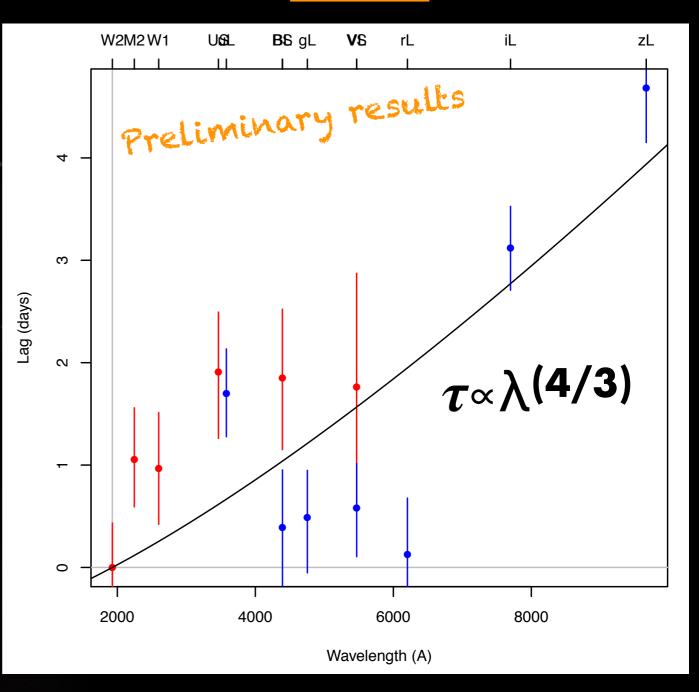
Disconnect between UV/optical and X-rays?



Driving UV/optical light curve (CREAM) is smoother than X-ray

Is the UV/optical driving light curve reprocessed X-ray at another site?

Fairall 9



ICCF & CREAM (Starkey+2016)

Spectral decomposition of variable component

