Dueling Scenarios in NGC 7582: Shut off vs. Hidden Nucleus

NGC 7582:

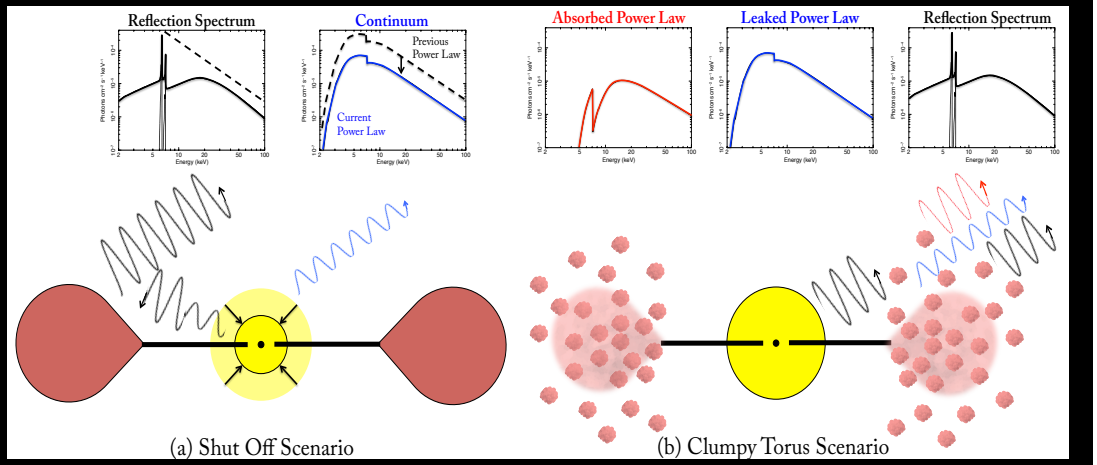
- Changing look source with a complex spectrum
- Highly variable ~10^{23} cm^{-2} absorption
- Very strong reflection

GOALS:

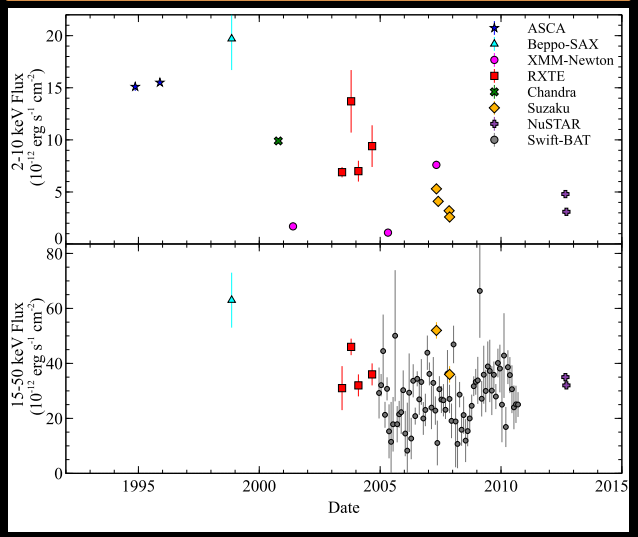
1) Measure the reflection and absorption components with *NuSTAR* and compare to previous measurements by Suzaku, XMM-Newton and Beppo-SAX.
2) Test the opposing shut-off and hidden nucleus scenarios.

Shut Off: drop in continuum flux with delayed response in reflection

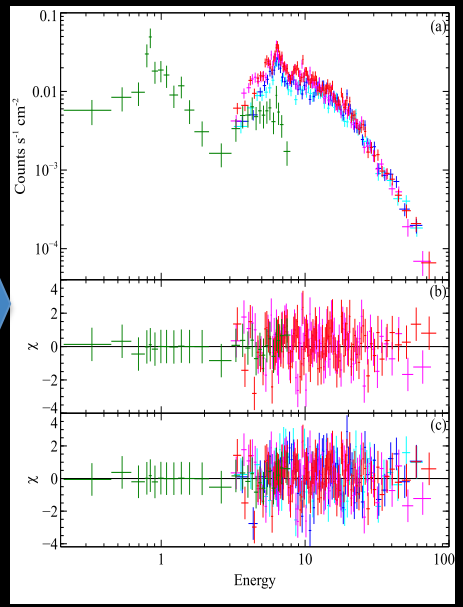
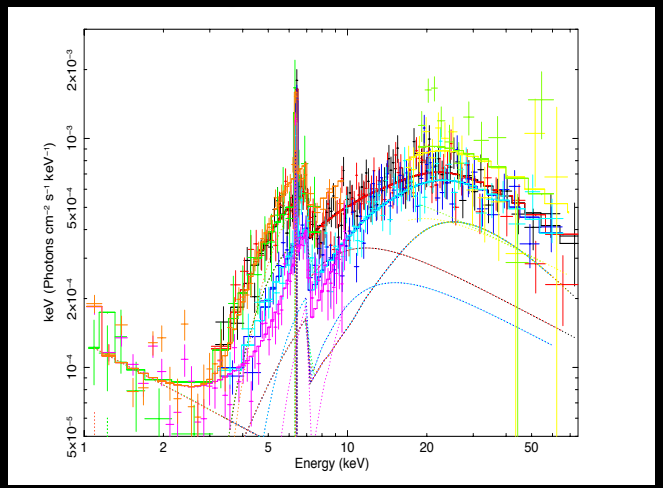
Hidden Nucleus: Compton thick torus with leaked emission



Longterm 2-10 and 20-50 keV lightcurves



Two NuSTAR observations from Sep 2013 with one Swift-XRT obs.



Simultaneous fitting of NuSTAR and Suzaku observations show consistent reflection, variable absorption.