

Abstract Submitted  
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**First Results from the 7 Ms Chandra Deep Field-South Survey:  
A Good Hard Look at Growing Supermassive Black Holes in the Dis-  
tant Universe** WILLIAM BRANDT, Pennsylvania State Univ, CHANDRA DEEP  
FIELDS TEAM — Sensitive cosmic X-ray surveys with the Chandra, XMM-Newton,  
and now NuSTAR observatories have revolutionized our ability to find and study dis-  
tant active galactic nuclei (AGNs), the main sites of supermassive black hole growth  
in the Universe. I will describe some recent discoveries about the demographics,  
physics, and ecology of distant AGNs coming from the deepest Chandra survey to  
date, the 7 Ms Chandra Deep Field-South. Some specific topics covered will include  
(1) robust X-ray spectral and variability characterization of the AGNs producing  
most of cosmic accretion power; (2) the demographics of AGNs in the first galaxies  
as revealed by direct detection and stacking; and (3) AGN/galaxy interactions as  
investigated via the host properties of X-ray AGNs. I will also briefly describe other  
remarkable discoveries coming from this survey; e.g., measurements of the evolving  
X-ray binary populations of normal and starburst galaxies.

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