



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO  
DI FISICA E ASTRONOMIA  
"AUGUSTO RIGHI"



**INAF**  
ISTITUTO NAZIONALE  
DI ASTROFISICA

# THE X-RAY ASTROPHYSICS OF THE HOT AND VIOLENT UNIVERSE.

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NASA/CXC/Stanford/I.Zhuravleva et al.

## MAY, 8

### 11:00 AM

SALA PLENARIA  
CENTRO CONGRESSI  
AREA DELLA RICERCA CNR-INAF  
VIA P. GOBETTI, 101  
BOLOGNA



X-rays reveal a hot and violent Universe. From the hot intracluster medium in clusters and groups of galaxies to gas swirling round black holes, X-rays provide vital information. High spatial resolution imaging and high spectral resolution spectroscopy reveal the role of black holes in the evolution of galaxies.

I shall give a personal perspective on the development of our understanding over the past decades and include some recent results.