

2nd XMM-CDFS Team Meeting

Cervia May 31 - June 1, 2012

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X-ray technical Issues

- Catalogue (detections/simulations/spurious fraction/logN-logS/...)
- 2-10 & 5-10 keV ... 0.5-2?
- Cosmic X-ray Background Resolved vs Unresolved fraction
- Spectra (fitting techniques, χ^2 , cstat, background subtraction ...)
- Light curves
- X-ray redshifts robustness ?

"Optical"-IDs Technical issues

- Optical IDs (Chandra-corrected positions)
- Multi-wavelength ID (COSMOS heritage?)
- Photo-z vs Spectro-z (run new photo-z codes?)
- Additional products? (i.e. Bolometric luminosities, BH masses, galaxy vs AGN decomposition,...)

Products to be released

- To the “public”
 - Catalogues in the hard X-ray bands
 - “Bright” spectra
 - “Bright” lightcurves
 - WEB site
- To the “extended” team
 - Public plus what is needed for your science
 - Internal WIKI

What do we need?

What the team members could bring?

Science priorities

- Obvious science is being "slowly" done (today presentations & tomorrow discussion)
- "Synergies". One of the meeting purposes is to think about exciting/new or, at least, non-obvious science.
- Best use of Chandra data as **added** value ...
- OM data ?
- STACK strategies (imaging/spectral) may be more extensive approach given the perspectives of X-ray astronomy after May 2.
- **INPUTs for NuSTAR** (to be launched June 13)

Agenda

- 1) X-ray data Analysis Piero
- 2) XMM vs Chandra + Optical Cristian + Francisco
- 11.15- 11.30 COFFEE BREAK
- 3) X-ray spectral analysis Andrea
- 4) Temporal and spectral X-ray variability in CDFS Maurizio
Multi-epoch variability of α_{OX} in the CDFS Fausto

- 12.45 LUNCH BREAK 1.30 hour

- 5) XMM X-ray stacking Serena
- 6) Chandra X-ray stacking Marcella
- 7) Heavily obscured AGN at $z > 1.7$ Kazushi
- 8) Chandra & XMM spectra of Compton thick Italo
- 9) X-ray-selected Infrared power-law galaxies Francisco

Agenda

10) Star formation in XMM selected AGN with Herschel Manolis

16.15-16,30 COFFEE BREAK

11) CDFS galaxy groups Alexis

12) The role of environment in the evolution of the SF.. Felicia

13) High-z (>3) QSO - Chandra&XMM Fabio

14) On the nature of soft CXB in the CDFS Nico

1 hour beach-swimming time

SOCIAL DINNER

XMM-CDFS papers

- Catalogue/logN-logS/ RANALLI+
- Hard Excess, high-z ($z > 1.7$) IWASAWA+
- Should we have a letter on 352 emphasizing the X-ray z measurement KI/CV
- Flux / counts limited sample (spectral survey) COMASTRI+
- 203 and 319 Bright Spectral Analysis & Variability (KI)
- Flat Spectra + Herschel GEORGANTOPOULOS

Caveat (make the flat source sample “consistent” with hard excess and flux limited sample)

- STACKING paper(s) -
- - Iron Line FALOCCO+
- - L /z/NH/ dependence (SF/Mass ...) optical classification
Combining with XMMCOSMOS ? In principle with Chandra as well ?
- - XMM blind stack ? High-z ? Bright IR/Mips etc etc ?

XMM-CDFS papers

- X-ray variability / α_{ox} PAOLILLO/VAGNETTI
- High Redshift AGN VITO ?
- X-ray spectroscopy/stack overdensity @ $z=0.7$???
- Extended sources / Groups FINOQUENOV
- Unresolved background CAPPELLUTI

CHANDRA SYNERGIES

“Joint” Spectral fits

Spectral Analysis & cross calibration BALESTRA

XMM-CDFS papers

MULTI-LAMBDA PAPERS

Infrared power law galaxies NURIA/CARRERA

SF in CDFS groups ZIPARO

New XMM sources and multi-lambda

High f_x f_{opt} ????

Properties of AGN in the groups ???