



Note all times are in Central European Time and the hands-on exercises are available at: $peterboorman.com/tutorial_bxa$

Monday 7th February 2022

- Day 1, X-ray spectral fitting introduction - (Talk chair: Dr. Daniel Kynoch)

9:00-9:30	- Coffee break
9:30-9:45	WelcomePresenter: Peter Boorman
9:45-11:00	– Hands-on: $Introduction\ to\ Xspec/PyXspec$
11:00-12:00	- Hands-on: Introduction to Sherpa
12:00 – 14:00	$-\ Lunch$
14:00-15:00	 Plenary lecture: The Past, Present & Future of X-ray Spectral Analysis Presenter: Dr. Keith Arnaud
15:00 – 15:30	- Coffee break
15:30 – 16:00	- Winter school photo
16:00 – 17:00	 Plenary lecture: The Importance & Power of X-ray Spectral Fitting Presenter: Prof. Richard Mushotzky





Tuesday 8th February 2022

- Day 2, BXA introduction - (Talk chair: Dr. Jiří Svoboda)

9:00-9:30	- Coffee break
9:30-11:00	– Hands on: $Xspec \ \mathcal{E} \ Sherpa \ exercises$
11:00 – 12:00	 Plenary lecture: Introductory talk for Bayesian X-ray Analysis Presenter: Dr. Johannes Buchner
12:00-14:00	$-\ Lunch$
14:00 – 14:30	 Invited talk: X-ray spectral analysis in eROSITA Final Equatorial Depth Survey (eFEDS): an example of using BXA Presenter: Dr. Teng Liu
14:30 – 15:00	 Invited talk: XMMFITCAT-Z: Using photo-z information within BXA Presenter: Dr. Angel Ruiz
15:00-15:30	$ Coffee \ break$
15:30-17:00	– Hands-on: BXA exercises, session 1: spectral fitting & model comparison





Wednesday 9th February 2022

- Day 3, BXA introduction -(Talk chair: Anastasia Yilmaz)

9:00-9:30	$ Coffee \ break$
9:30-12:00	- Hands-on: BXA exercises, session 1: spectral fitting & model comparison
12:00-14:00	$-\ Lunch$
14:00 – 14:30	 Invited talk: A BXA-driven study of reliability of X-ray Spectral fits in determining AGN torus morpholology Presenter: Tathagata Saha
14:30 – 15:00	 Invited talk: Using BXA to derive redshifts Presenter: Charlotte Simmonds
15:00-15:30	$ Coffee \ break$
15:30 – 17:00	- Hands-on: BXA exercises, session 1: spectral fitting & model comparison
19:00 - 22:00	- Virtual social evening





Thursday 10th February 2022

-Day 4, BXA more advanced concepts -(Talk chair: Dr. Daniel Kynoch)

9:00-9:30	- Coffee $break$
9:30-10:30	 Lecture: More computationally-expensive analyses with BXA Presenter: Peter Boorman
10:30-12:00	- Hands-on: BXA exercises, session 2: more advanced concepts
12:00-14:00	$-\ Lunch$
14:00 – 14:30	 Invited talk: Complex modelling with many datasets within BXA Presenter: Devang Liya
$14:\!30\!-\!15:\!00$	 Invited talk: Exploring the obscuration properties of AGN in the Chandra Deep Wide Field Survey with BXA Presenter: Dr. Alberto Masini
15:00-15:30	- Coffee break
15:30 – 17:00	- Hands-on: BXA exercises, session 2: more advanced concepts
19:00 – 22:00	- Winter school meal





Friday 11th February 2022

$-Day\ 5,\ BXA\ more\ advanced\ concepts-$

(Talk chair: Dr. Peter Boorman)

9:00-9:30	- Coffee break
9:30-12:00	- Hands-on: BXA exercises, session 2: more advanced concepts
12:00 – 14:00	$-\ Lunch$
14:00 – 14:30	 Invited talk: Bayesian spectral analysis for large XMM surveys Presenter: Lingsong Ge
14:30-15:00	 Invited talk: The synergy between Monte Carlo Radiative Transfer and Artificial Neural Networks Presenter: Dr. Gabriele Matzeu
15:00 – 15:30	$ Coffee \ break$
15:30 – 16:30	- Hands-on: BXA exercises, session 2: more advanced concepts
16:30-17:00	$ Questions$ ${\cal E}$ $closing$ $remarks$

 $-\mathit{End}\ of\ winter\ school\,-$