

Prague | February 2022





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All times are in Central European Time and hands-on sessions are in-person only.

XSF hands-on: peterboorman.com/tutorial\_bxa

## Monday 7th February 2022

### - Day 1, X-ray spectral fitting introduction -(Talk chair: Jiří Svoboda)

9:00-9:30	$-$ In-person registration ${\mathfrak E}$ coffee break
9:30-9:45	<ul><li>Welcome</li><li>Presenter: Peter Boorman</li></ul>
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	<ul> <li>Plenary lecture: The Past, Present &amp; Future of X-ray Spectral Analysis</li> <li>Presenter: Keith Arnaud</li> </ul>
15:00-15:30	- Coffee $break$
15:30 – 16:00	$-\ Winter\ school\ photo$
16:00 – 17:00	<ul> <li>Plenary lecture: High Energy Astrophysics Spectroscopy</li> <li>Presenter: Richard Mushotzky</li> </ul>





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### Tuesday 8th February 2022

## - Day 2, BXA introduction -(Talk chair: Daniel Kynoch)

9:00-9:30	$ Coffee \ break$
9:30-11:00	– Hands on: $Xspec \ \mathcal{E} \ Sherpa \ exercises$
11:00-12:00	<ul> <li>Plenary lecture: Introductory talk for Bayesian X-ray Analysis</li> <li>Presenter: Johannes Buchner</li> </ul>
12:00-14:00	$-\ Lunch$
14:00 – 14:30	<ul> <li>Invited talk: X-ray spectral analysis in eROSITA Final Equatorial Depth Survey (eFEDS): an example of using BXA</li> <li>Presenter: Teng Liu</li> </ul>
14:30 – 15:00	<ul> <li>Invited talk: XMMFITCAT-Z: Using photo-z information within BXA</li> <li>Presenter: Angel Ruiz</li> </ul>
15:00-15:30	- Coffee break
15:30-16:30	- Hands-on: BXA exercises, session 1: spectral fitting & model comparison
16:30 – 17:00	$ Questions$ ${\cal B}$ $discussion$





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#### Wednesday 9th February 2022

# $-\,Day\,\, \textit{3, BXA introduction}\, -$

(Talk chair: Peter Boorman)

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	<ul> <li>Invited talk: A BXA-driven study of reliability of X-ray Spectral fits in determining AGN torus morpholology</li> <li>Presenter: Tathagata Saha</li> </ul>
14:30 – 15:00	<ul> <li>Invited talk: Deriving redshifts from X-ray spectra of obscured AGN using BXA</li> <li>Presenter: Charlotte Simmonds</li> </ul>
15:00-15:30	- Coffee break
15:30 – 16:30	- Hands-on: BXA exercises, session 1: spectral fitting & model comparison
16:30-17:00	$- \ Questions \ {\cal B} \ discussion$
19:00	<ul> <li>Virtual social evening</li> <li>An opportunity for all participants to meet, greet and play online games.</li> <li>Organiser: Abhijeet Borkar</li> </ul>





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#### Thursday 10th February 2022

## - Day 4, BXA more advanced concepts -

(Talk chair: Anastasia Yilmaz)

9:00-9:30	$ Coffee \ break$
9:30-10:00	– Hands on: $BXA$ exercises, session 1: spectral fitting $\ensuremath{\mathfrak{C}}$ model comparison
10:00-11:00	<ul> <li>Hands-on: BXA analyses part II</li> <li>Presenters: Johannes Buchner &amp; Peter Boorman</li> </ul>
10:30 – 12:00	- Hands-on: BXA exercises, session 2: more advanced concepts
12:00 – 14:00	$-\ Lunch$
14:00 – 14:30	<ul> <li>Invited talk: Complex modelling with many datasets within BXA</li> <li>Presenter: Devang Liya</li> </ul>
14:30-15:00	<ul> <li>Invited talk: Exploring the obscuration properties of AGN in the Chandra Deep Wide Field Survey with BXA</li> <li>Presenter: Alberto Masini</li> </ul>
15:00 – 15:30	- Coffee $break$
15:30 – 16:30	- Hands-on: BXA exercises, session 2: more advanced concepts
16:30 – 17:00	$ Questions$ ${\cal C}$ $discussion$
19:00	<ul><li>Winter school meal</li><li>Venue: TBD</li></ul>





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#### Friday 11th February 2022

### - Day 5, BXA more advanced concepts -(Talk chair: Jiří Svoboda)

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	<ul> <li>Invited talk: Bayesian spectral analysis for large XMM surveys</li> <li>Presenter: Lingsong Ge</li> </ul>
14:30-15:00	<ul> <li>Invited talk: The synergy between Monte Carlo Radiative Transfer and Artificial Neural Networks</li> <li>Presenter: Gabriele Matzeu</li> </ul>
15:00-15:30	- Coffee break
15:30 – 16:30	- Hands-on: BXA exercises, session 2: more advanced concepts
16:30-17:00	- Closing remarks

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