

Prague | February 2022





### Prague | February 2022

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

#### Monday 7th February 2022

## - Day 1, X-ray spectral fitting introduction -

(Talk chair: Jiří Svoboda)

9:00-9:30	$-$ In-person registration ${\mathfrak C}$ 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: <i>Introduction to Sherpa</i>
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>





Prague | February 2022

### 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 & Sherpa exercises
11:00-12:00	<ul> <li>Plenary lecture: <i>Introductory talk for Bayesian X-ray Analysis</i></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
15:30 – 16:30	$- \ Questions \ {\cal E} \ discussion$





Prague | February 2022

#### 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>





Prague | February 2022

#### Thursday 10th February 2022

### -Day 4, BXA more advanced concepts-

(Talk chair: Anastasia Yilmaz)

9:00-9:30	$-\ Coffee\ break$
9:30-10:30	<ul> <li>Hands-on: More computationally-expensive analyses with BXA</li> <li>Presenter: 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	$- \ Questions \ {\it @ discussion}$
19:00	<ul><li>Winter school meal</li><li>Venue: TBD</li></ul>





Prague | February 2022

#### 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

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