



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 -

9:00-9:30 - Coffee, help & questions (optional)

9:30-9:45 - Welcome

- Presenter: **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

- Plenary lecture: The Past, Present & Future of X-ray Spectral

14:00-15:00 Analysis

- Presenter: **Dr. Keith Arnaud** 

15:00-15:30 - Coffee break

- Plenary lecture: The Importance & Power of X-ray Spectral Fitting

- Presenter: Prof. Richard Mushotzky

-End of day 1-





### Tuesday 8th February 2022

-Day 2, BXA introduction & hands-on exercises session 1 -

9:00-9:30 - Coffee, help & questions (optional)

9:30-11:00 - Hands on: **Xspec & 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: *TBD* 

- Presenter: **Dr. Teng Liu** 

- Invited talk: XMMFITCAT-Z: Using photo-z information within

14:30-15:00 BXA

- Presenter: **Dr. Angel Ruiz** 

15:00-15:30 - Coffee break

15:30-17:00 - Hands-on: BXA exercises, session 1: spectral fitting  $\mathfrak E$  model comparison

-End of day 2-





### Wednesday 9th February 2022

	-Day 3, BXA hands-on session 1 -
9:00-9:30	- Coffee, help & questions (optional)

0.20 12.00	- Hands-on: $BXA$ exercises, session 1: spectral fitting $\mathfrak E$ model	
9:30-12:00	comparison	

	12:00-14:00	- $Lunch$
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	- Invited talk: A BXA-driven study of reliability of X-ray Spectral fits
14:00-14:30	$in \ determining \ AGN \ torus \ morpholology$
	- Presenter: <b>Tathagata Saha</b>

-14:30-15:00 - Invited talk: Using BXA to derive redshifts

- Presenter: Charlotte Simmonds

 $15:00-15:30 \quad - \ \textit{Coffee break}$ 

19:00-22:00 - Winter school meal

-End of day 3-





### Thursday 10th February 2022

9:00-9:30 - Coffee, help & questions (optional)

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 Liva** 

Invited talk: Exploring the obscuration properties of AGN in the

14:30-15:00 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

-End of day 4-





### Friday 11th February 2022

-Day 5,	questions	$\mathcal{E}$	continued	more	advanced	concepts –

9:00-9:30 - Coffee, help & questions (optional)

9:30-12:00 - Hands-on: BXA exercises, session 2: more advanced concepts

12:00-14:00 - Lunch

- Invited talk: Bayesian spectral analysis for large XMM surveys

- Presenter: **Lingsong Ge** 

- Invited talk: The synergy between Monte Carlo Radiative Transfer

14:30-15:00 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 & closing remarks

-End of day 5-