

Prague | February 2022





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

Monday 7th February 2022

$-\,Day\,\,1,\,\,X\text{-}ray\,\,spectral\,\,fitting\,\,introduction\,-$

(Talk chair: Jiří Svoboda)

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: Keith Arnaud
15:00-15:30	- Coffee break
15:30 – 16:00	$-\ Winter\ school\ photo$
16:00 – 17:00	 Plenary lecture: High Energy Astrophysics Spectroscopy Presenter: Richard Mushotzky





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	 Plenary lecture: Introductory talk for Bayesian X-ray Analysis Presenter: 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: Teng Liu
14:30 – 15:00	 Invited talk: XMMFITCAT-Z: Using photo-z information within BXA Presenter: Angel Ruiz
15:00-15:30	- Coffee break
15:30 – 16:30	- Hands-on: BXA exercises, session 1: spectral fitting & model comparison
15:30 – 16:30	$- \ Questions \ {\it \& } \ discussion$





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 $\ensuremath{\mathfrak{C}}$ 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: Deriving redshifts from X-ray spectra of obscured AGN using BXA Presenter: Charlotte Simmonds
15:00-15:30	$ Coffee \ break$
15:30-16:30	– Hands-on: BXA exercises, session 1: spectral fitting & model comparison
16:30-17:00	$- \ Questions \ {\it \& } \ discussion$
19:00	 Virtual social evening An opportunity for all participants to meet, greet and play online games. Organiser: Abhijeet Borkar





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Thursday 10th February 2022

-Day 4, BXA more advanced concepts-

(Talk chair: Anastasia Yilmaz)

9:00-9:30	- Coffee break
9:30-10:30	 Hands-on: 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: Alberto Masini
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	Winter school mealVenue: TBD





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Friday 11th February 2022

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

- Coffee break 9:00-9:30- Hands-on: BXA exercises, session 2: more advanced concepts 9:30-12:0012:00-14:00- Lunch - Invited talk: Bayesian spectral analysis for large XMM surveys 14:00-14:30- Presenter: Lingsong Ge - Invited talk: The synergy between Monte Carlo Radiative Transfer and Artificial Neural Networks 14:30-15:00- Presenter: Gabriele Matzeu 15:00-15:30- Coffee break - Hands-on: BXA exercises, session 2: more advanced concepts 15:30-16:30- Closing remarks 16:30-17:00

 $-End\ of\ winter\ school-$