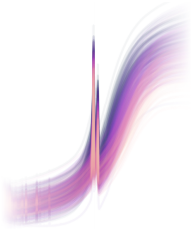


X-ray Spectral Fitting 2022

Astronomical Institute of the Czech Academy of Sciences

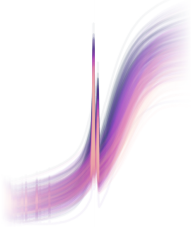
Note all times are in Central European Time and the hands-on exercises are available at:
peterboorman.com/tutorial_bxa

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***
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***
16:00 – 17:00	– Plenary lecture: ***The Importance & Power of X-ray Spectral Fitting*** – Presenter: **Prof. Richard Mushotzky**

– End of day 1 –



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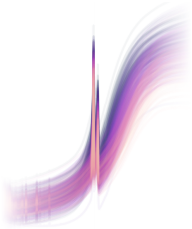
Tuesday 8th February 2022

– Day 2, BXA introduction –

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**
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***

– End of day 2 –



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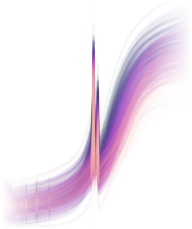
Wednesday 9th February 2022

– Day 3, BXA hands-on session 1 –

9:00 – 9:30	– ***Coffee, help & questions*** (optional)
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 morphology*** – 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	– ***Winter school meal***

– End of day 3 –



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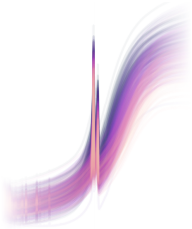
Thursday 10th February 2022

– Day 4, BXA more advanced concepts –

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 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***

– End of day 4 –



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Friday 11th February 2022

– Day 5, questions & 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***
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 & closing remarks***

– End of day 5 –