



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 | $ 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: The Importance & Power of X-ray Spectral Fitting Presenter: Richard Mushotzky |





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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 & Sherpa exercises |
| 11:00-12:00 | Plenary lecture: <i>Introductory talk for Bayesian X-ray Analysis</i> 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 | $- \ Questions \ {\cal E} \ discussion$ |





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Wednesday 9th February 2022

$-\,Day\,\,3,\,\,BXA\,\,introduction\,-$

(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 | 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$ ${\cal C}$ $discussion$ |
| 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 | $- \ Questions \ {\it @ discussion}$ |
| 19:00 | Winter school mealVenue: TBD |





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Friday 11th February 2022

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

| 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 | 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: 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 | - Closing remarks |

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