

**X-RAY SPECTRAL FITTING WORKSHOP**  
**7 – 11 February 2022**



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*Note all times are in Central European Time and the hands-on exercises are available at:*  
[peterboorman.com/tutorial\\_bxa](http://peterboorman.com/tutorial_bxa)

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***Monday 7th February 2022***

***– Day 1, X-ray spectral fitting introduction –***

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| 9:00 – 10:00  | – <i>Software installation questions &amp; help</i> (optional)<br>– Peter Boorman, Jiří Svoboda, Daniel Kynoch, Anastasia Yilmaz (ASU CAS) |
| 10:00 – 10:30 | – <i>Welcome + coffee</i><br>– Presenter: Peter Boorman (ASU CAS)  |
| 10:30 – 12:00 | – <i>Introduction to X-ray astronomy &amp; spectral fitting</i><br>– Presenter: TBD  |
| 12:00 – 14:00 | – <i>Lunch</i>   |
| 14:00 – 15:30 | – <i>Hands-on introduction to Xspec/PyXspec</i><br>– Peter Boorman, Jiří Svoboda, Daniel Kynoch, Anastasia Yilmaz (ASU CAS)                |
| 15:30 – 16:00 | – <i>Coffee break</i>  |
| 16:00 – 17:30 | – <i>Hands-on introduction to Sherpa</i><br>– Presenter: Peter Boorman (ASU CAS)   |

***– End of day 1 –***

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*Tuesday 8th February 2022*

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

- 9:30 – 10:00    – *Coffee, help & questions* (optional)  
                  – Peter Boorman, Jiří Svoboda, Daniel Kynoch, Anastasia Yilmaz  
                  (ASU CAS)
- 10:00 – 11:00    – *Introductory talk for Bayesian X-ray Analysis*  
                  – Presenter: Johannes Buchner (MPE)
- 11:00 – 12:00    – *Invited science talk(s)*  
                  – Presenter: TBD
- 12:00 – 14:00    – *Lunch*
- 14:00 – 15:00    – *Hands-on exercises, session 1:* spectral fitting & model comparison  
                  – Presenter: Peter Boorman (ASU CAS)
- 15:00 – 15:30    – *Coffee break*
- 15:30 – 17:30    – *Hands-on exercises, session 1:* spectral fitting & model comparison  
                  – Presenter: Peter Boorman (ASU CAS)

*– End of day 2 –*

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*Wednesday 9th February 2022*

*– Day 3, BXA hands-on session 1 –*

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| 9:30 – 10:00  | – <i>Coffee, help &amp; questions</i> (optional)<br>– Peter Boorman, Jiří Svoboda, Daniel Kynoch, Anastasia Yilmaz (ASU CAS) |
| 10:00 – 11:00 | – <i>Invited science talk(s)</i><br>– Presenter: TBD   |
| 11:00 – 12:00 | – <i>Invited science talk(s)</i><br>– Presenter: TBD   |
| 12:00 – 14:00 | – <i>Lunch</i>   |
| 14:00 – 15:00 | – <i>Hands-on exercises, session 1:</i> spectral fitting & model comparison<br>– Presenter: Peter Boorman (ASU CAS)          |
| 15:00 – 15:30 | – <i>Coffee break</i>  |
| 15:30 – 17:30 | – <i>Hands-on exercises, session 1:</i> spectral fitting & model comparison<br>– Presenter: Peter Boorman (ASU CAS)          |

*– End of day 3 –*

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*Thursday 10th February 2022*

*– Day 4, BXA more advanced concepts –*

- 9:30 – 10:00    – *Coffee, help & questions* (optional)  
                  – Peter Boorman, Jiří Svoboda, Daniel Kynoch, Anastasia Yilmaz  
                  (ASU CAS)
- 10:00 – 11:00    – *More computationally-expensive analyses with BXA*  
                  – Presenter: **Peter Boorman** (ASU CAS)
- 11:00 – 12:00    – *Invited science talk(s)*  
                  – Presenter: **TBD**
- 12:00 – 14:00    – *Lunch*
- 14:00 – 15:00    – *Hands-on exercises, session 2:* more advanced concepts  
                  – Presenter: **Peter Boorman** (ASU CAS)
- 15:00 – 15:30    – *Coffee break*
- 15:30 – 17:30    – *Hands-on exercises, session 2:* more advanced concepts  
                  – Presenter: **Peter Boorman** (ASU CAS)

*– End of day 4 –*

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*Friday 11th February 2022*

*– Day 5, questions & continued more advanced concepts –*

- 9:30 – 10:00    *– Coffee, help & questions* (optional)  
                    *– Peter Boorman, Jiří Svoboda, Daniel Kynoch, Anastasia Yilmaz*  
                    (ASU CAS)
- 10:00 – 11:00    *– Invited science talk(s)*  
                    *– Presenter: TBD*
- 11:00 – 12:00    *– Invited science talk(s)*  
                    *– Presenter: TBD*
- 12:00 – 14:00    *– Lunch*
- 14:00 – 15:00    *– Hands-on exercises, session 2: more advanced concepts*  
                    *– Presenter: Peter Boorman (ASU CAS)*
- 15:00 – 15:30    *– Coffee break*
- 15:30 – 17:00    *– Hands-on exercises, session 2: more advanced concepts*  
                    *– Presenter: Peter Boorman (ASU CAS)*
- 17:00 – 17:30    *– Questions & closing remarks*

*– End of day 5 –*