

X-RAY SPECTRAL FITTING WORKSHOP
7 – 11 February 2022



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

– End of day 1 –

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

– End of day 2 –

Wednesday 9th February 2022

– Day 3, BXA hands-on session 1 –

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| 9:30 – 10:00 | <ul style="list-style-type: none">– <i>Coffee, help & questions</i> (optional)– Peter Boorman, Jiří Svoboda, Anastasia Yilmaz (ASU CAS) |
| 10:00 – 10:30 | <ul style="list-style-type: none">– <i>Invited science talk</i>– Led by: TBD |
| 10:30 – 11:00 | <ul style="list-style-type: none">– <i>Invited science talk</i>– Led by: TBD |
| 11:00 – 12:00 | <ul style="list-style-type: none">– <i>Hands-on exercises, session 1:</i> spectral fitting & model comparison– Led by: Peter Boorman (ASU CAS) |
| 12:00 – 14:00 | <ul style="list-style-type: none">– <i>Lunch</i> |
| 14:00 – 14:30 | <ul style="list-style-type: none">– <i>Invited science talk</i>– Led by: TBD |
| 14:30 – 15:00 | <ul style="list-style-type: none">– <i>Invited science talk</i>– Led by: TBD |
| 15:00 – 15:30 | <ul style="list-style-type: none">– <i>Coffee break</i> |
| 15:30 – 17:30 | <ul style="list-style-type: none">– <i>Hands-on exercises, session 1:</i> spectral fitting & model comparison– Led by: Peter Boorman (ASU CAS) |

– End of day 3 –

Thursday 10th February 2022

– Day 4, BXA more advanced concepts –

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

– End of day 4 –

Friday 11th February 2022

– Day 5, questions & continued more advanced concepts –

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| 9:30 – 10:00 | <ul style="list-style-type: none">– <i>Coffee, help & questions</i> (optional)– Peter Boorman, Jiří Svoboda, Anastasia Yilmaz (ASU CAS) |
| 10:00 – 10:30 | <ul style="list-style-type: none">– <i>Invited science talk</i>– Led by: TBD |
| 10:30 – 11:00 | <ul style="list-style-type: none">– <i>Invited science talk</i>– Led by: TBD |
| 11:00 – 12:00 | <ul style="list-style-type: none">– <i>Hands-on exercises, session 2:</i> more advanced concepts– Led by: Peter Boorman (ASU CAS) |
| 12:00 – 14:00 | <ul style="list-style-type: none">– <i>Lunch</i> |
| 14:00 – 14:30 | <ul style="list-style-type: none">– <i>Invited science talk</i>– Led by: TBD |
| 14:30 – 15:00 | <ul style="list-style-type: none">– <i>Invited science talk</i>– Led by: TBD |
| 15:00 – 15:30 | <ul style="list-style-type: none">– <i>Coffee break</i> |
| 15:30 – 17:00 | <ul style="list-style-type: none">– <i>Hands-on exercises, session 2:</i> more advanced concepts– Led by: Peter Boorman (ASU CAS) |
| 17:00 – 17:30 | <ul style="list-style-type: none">– <i>Questions & closing remarks</i> |

– End of day 5 –