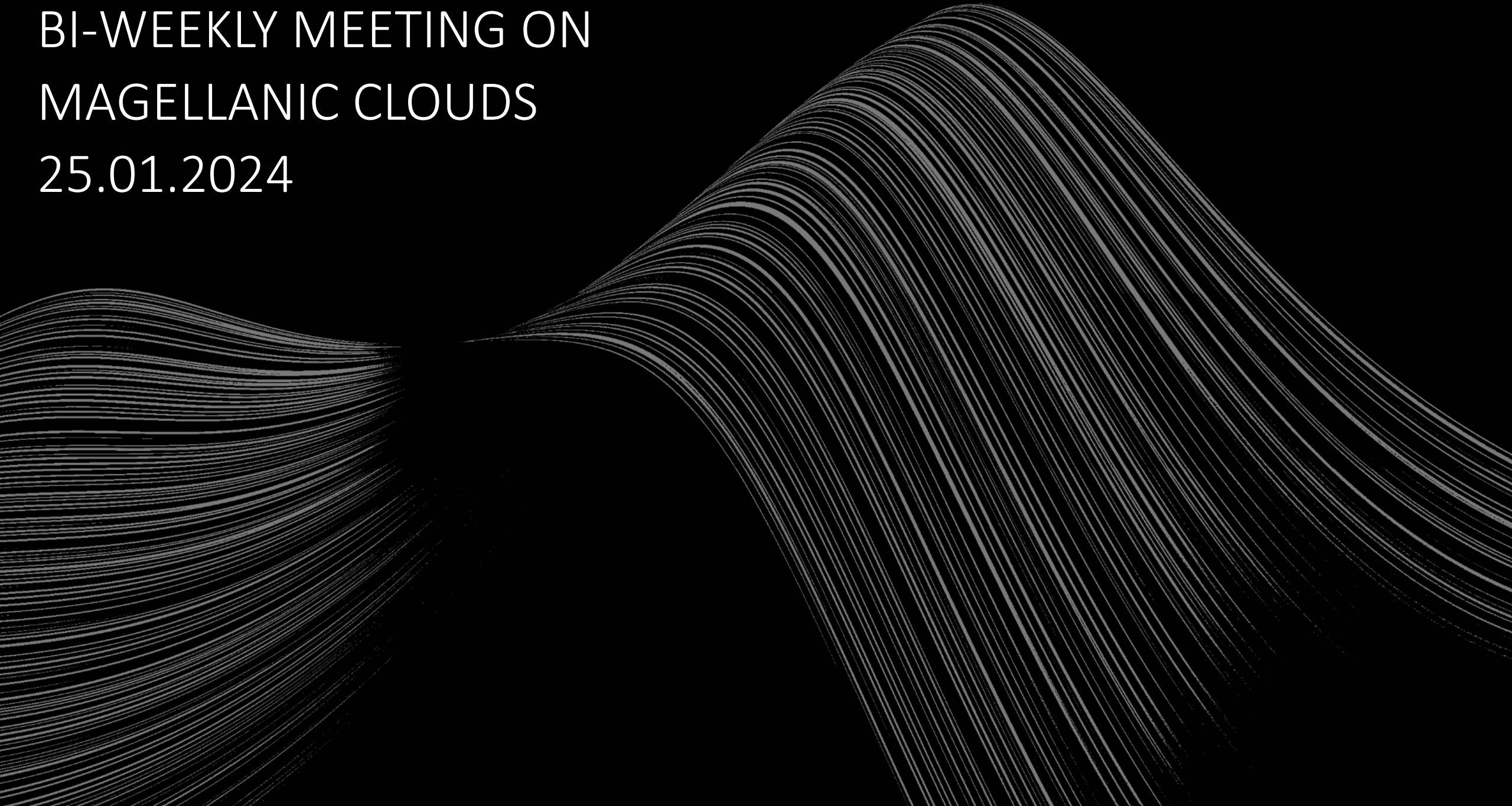


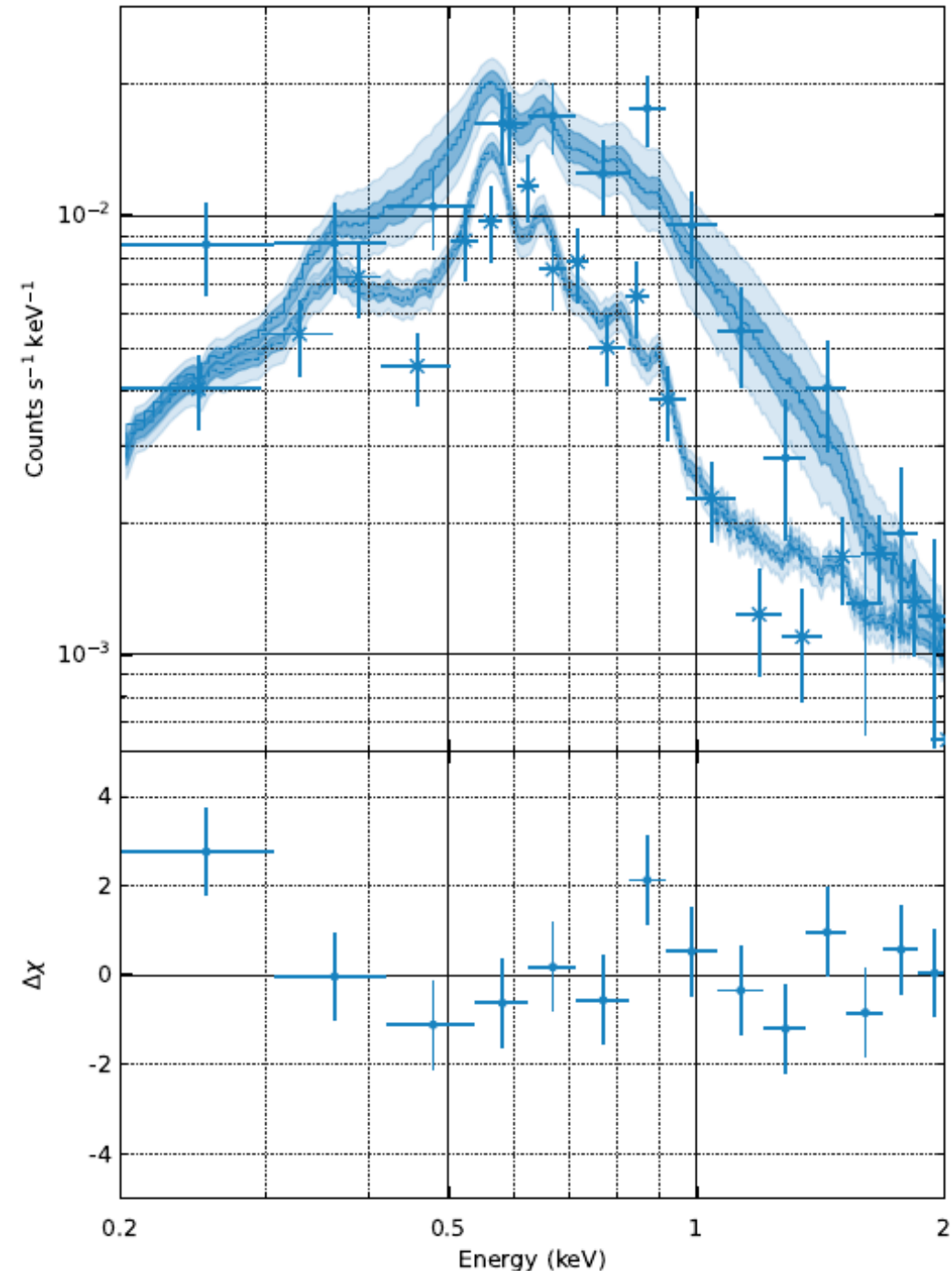
BI-WEEKLY MEETING ON
MAGELLANIC CLOUDS
25.01.2024



Data Analysis - HiMaXBipy

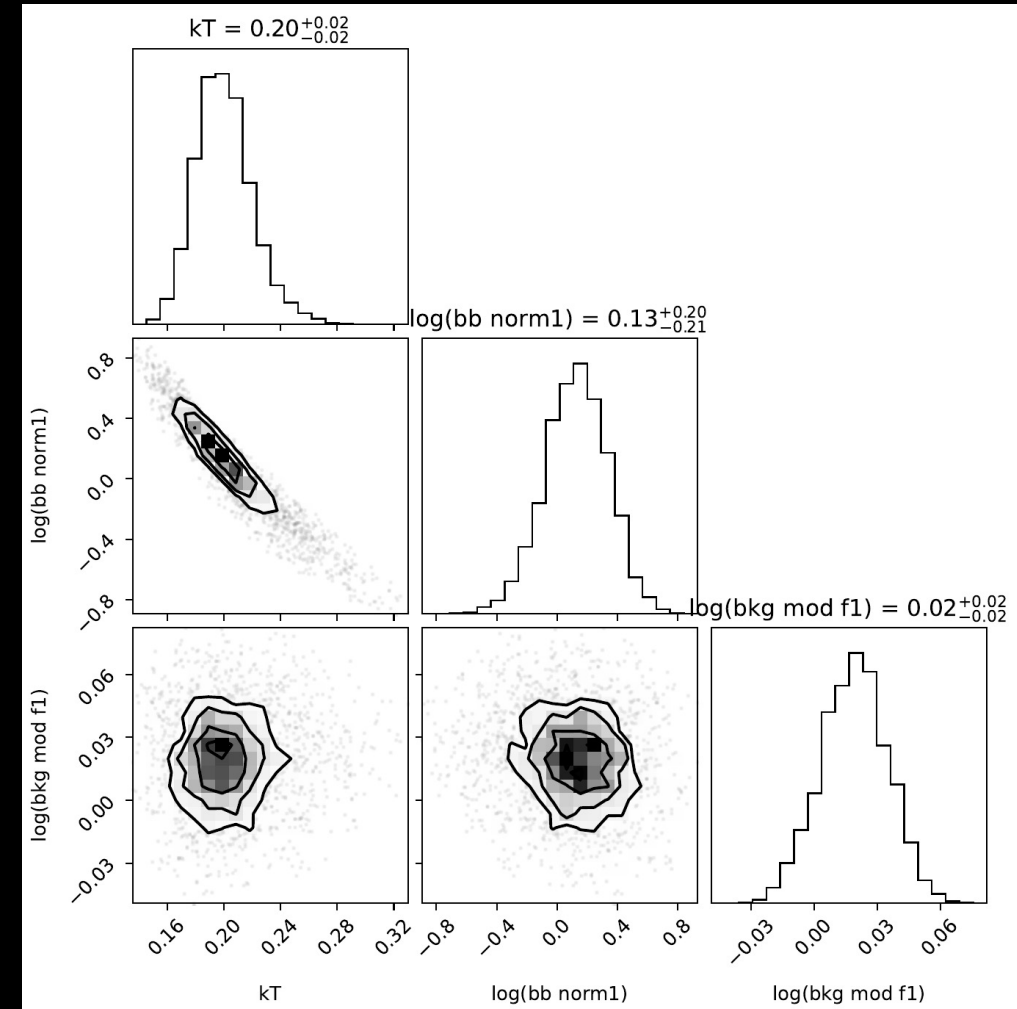
- Finished features:
 - Spectral fit for eROSITA
 - bb/apl \rightarrow corner&spectrum
 - NH downloaded and scaled
 - bxa-fit
 - Flux chains for further analysis (e.g. luminosity function)
 - Lightcurves with removed white space
 - HR lightcurve (?)
- Open:
 - Simultaneous spectral fit with XMM

1eRASS J052835.8-654233 - spectrum



Data Analysis - HiMaXBipy

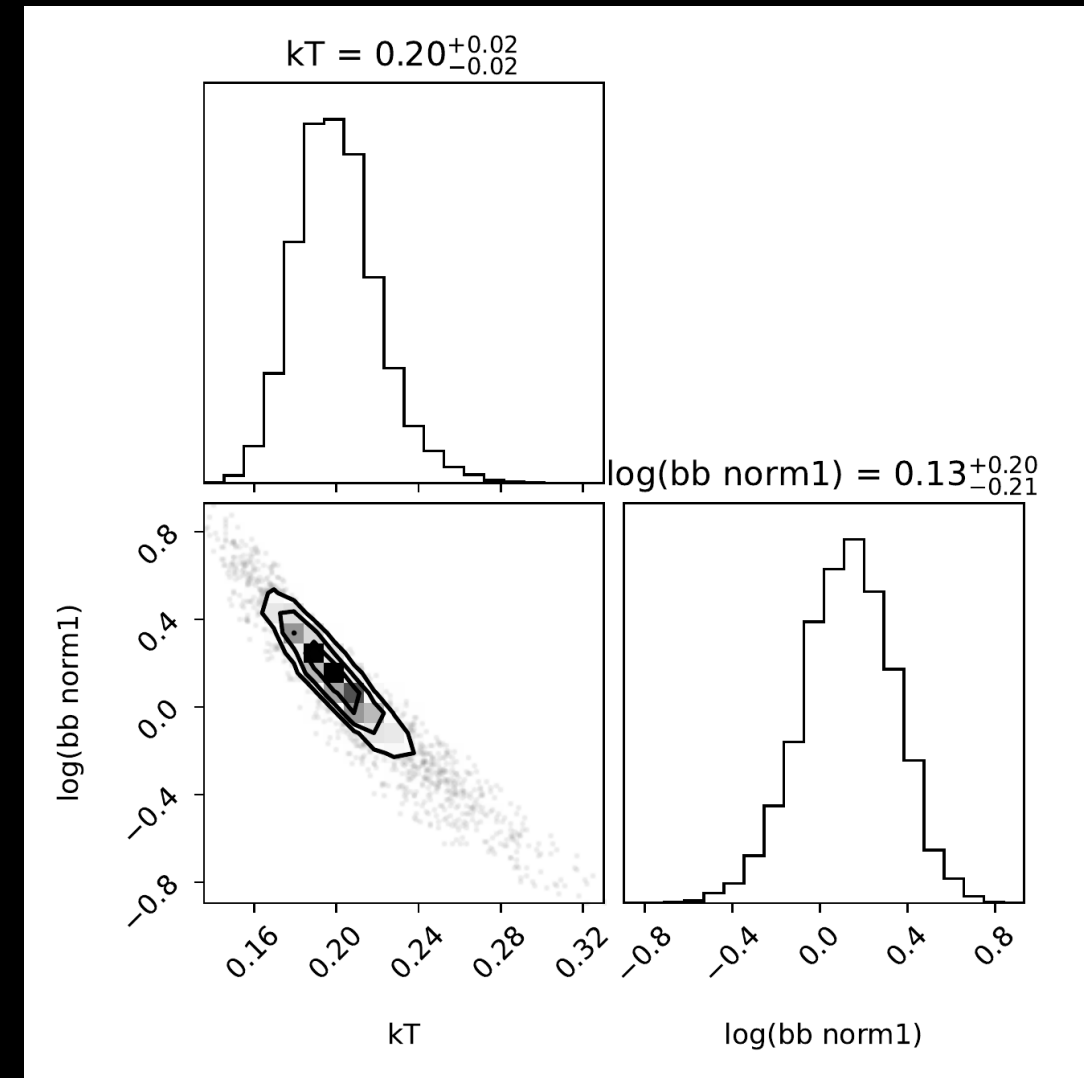
- Finished features:
 - Spectral fit for eROSITA
 - `bb/apl` → `corner&spectrum`
 - NH downloaded and scaled
 - `bx`-fit
 - Flux chains for further analysis (e.g. luminosity function)
 - Lightcurves with removed white space
 - HR lightcurve (?)
- Open:
 - Simultaneous spectral fit with XMM



1eRASS J052835.8-654233 – full corner plot

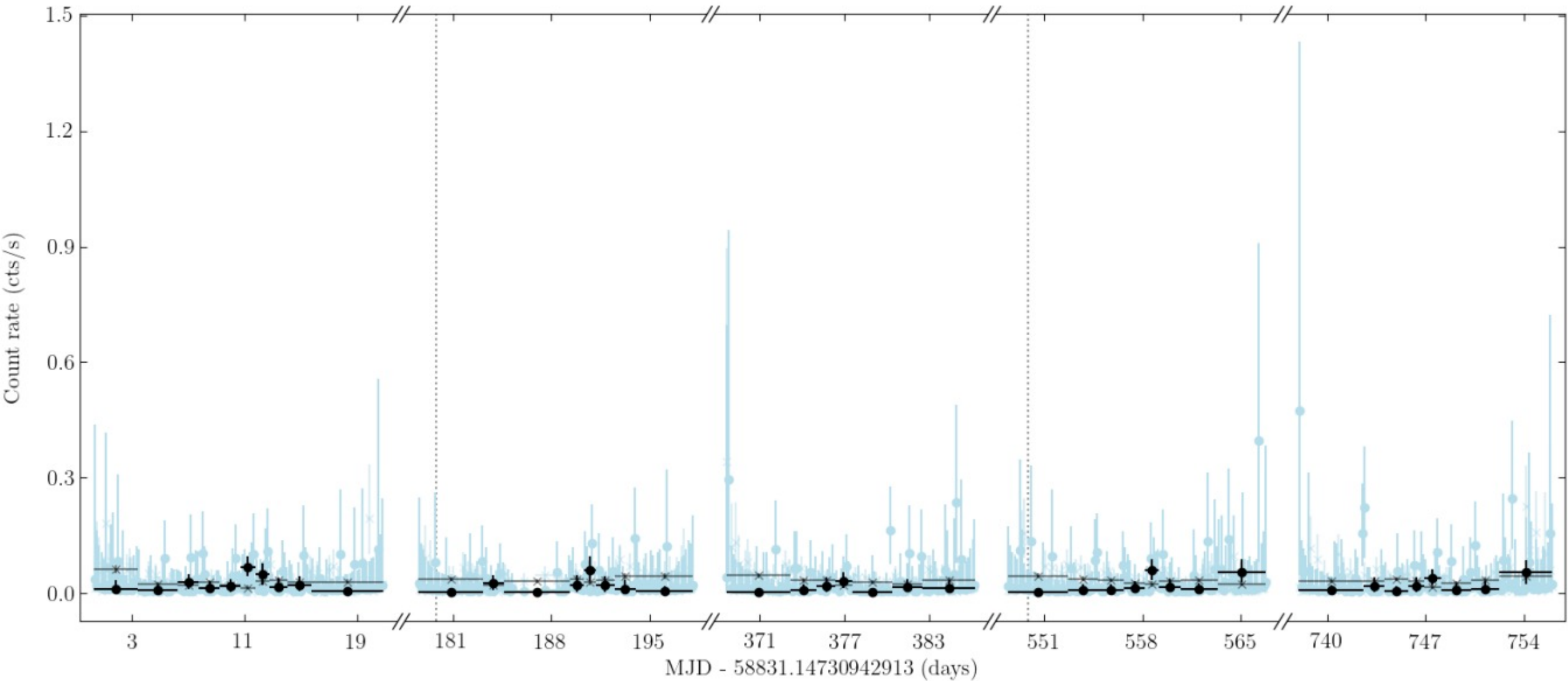
Data Analysis - HiMaXBipy

- Finished features:
 - Spectral fit for eROSITA
 - bxa-fit
 - bb/apl → corner&spectrum
 - NH downloaded and scaled
 - Flux chains for further analysis (e.g. luminosity function)
 - Lightcurves with removed white space
 - HR lightcurve (?)
- Open:
 - Simultaneous spectral fit with XMM



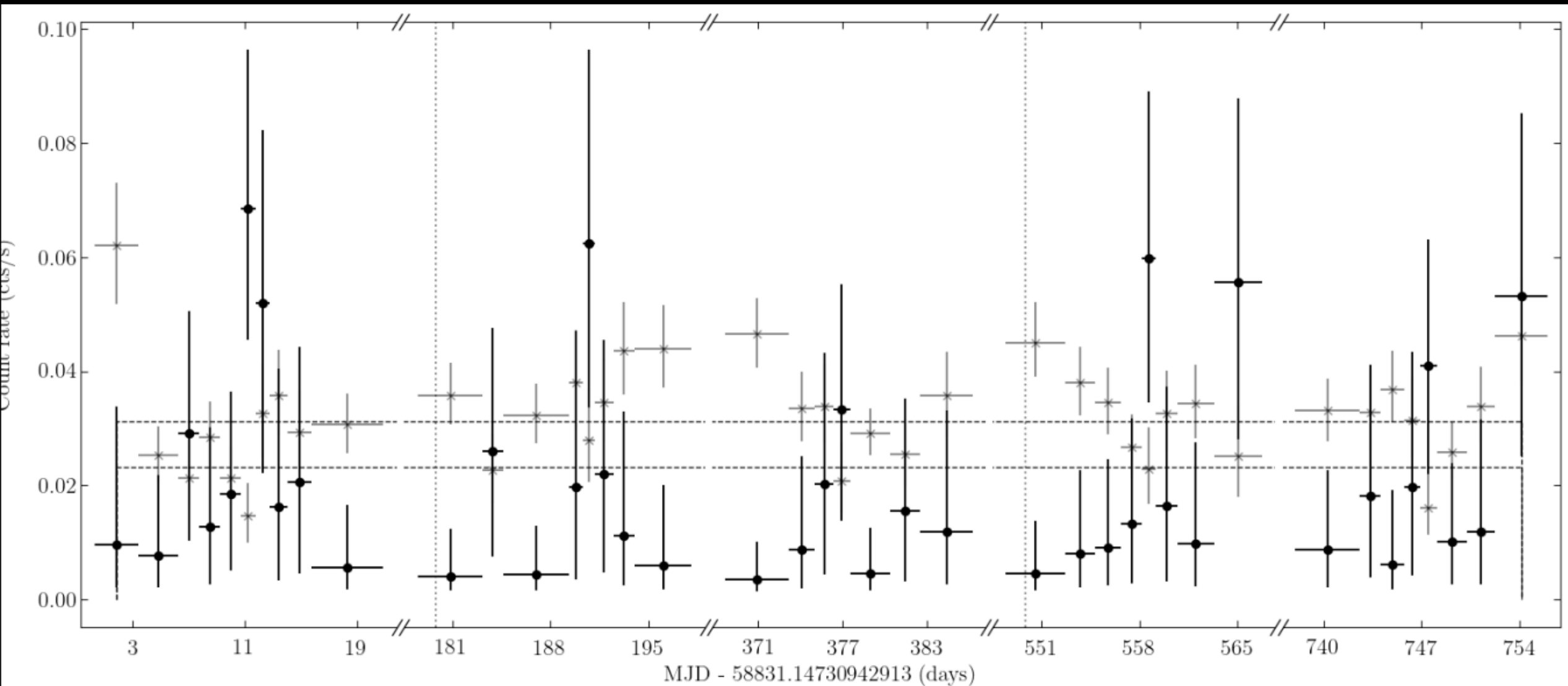
1eRASS J052835.8-654233 – modified corner plot

Drift A: LMA VD:



XMM

1eRASS J052835.8-654233 - full LC



• Simultaneous spectral fit with XMM

1eRASS J052835.8-654233 – full with Bayesian blocks

Data Analysis - HiMaXBipy

- Finished features:
 - Spectral fit for eROSITA
 - bxa-fit
 - bb/apl → corner&spectrum
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 - Flux chains for further analysis (e.g. luminosity function)
 - Lightcurves with removed white space
- Open:
 - HR lightcurve – debugging
 - Simultaneous spectral fit with XMM

AI for Code – Interesting?

- CodiumAI:
 - Testing
 - Automated docstrings
 - Code explanation (if one does not understand what a function does exactly)
- Codeium:
 - AI supported autocompletion
 - Writes entire lines and loops by analysing what was written before