

fit gaussian to lc

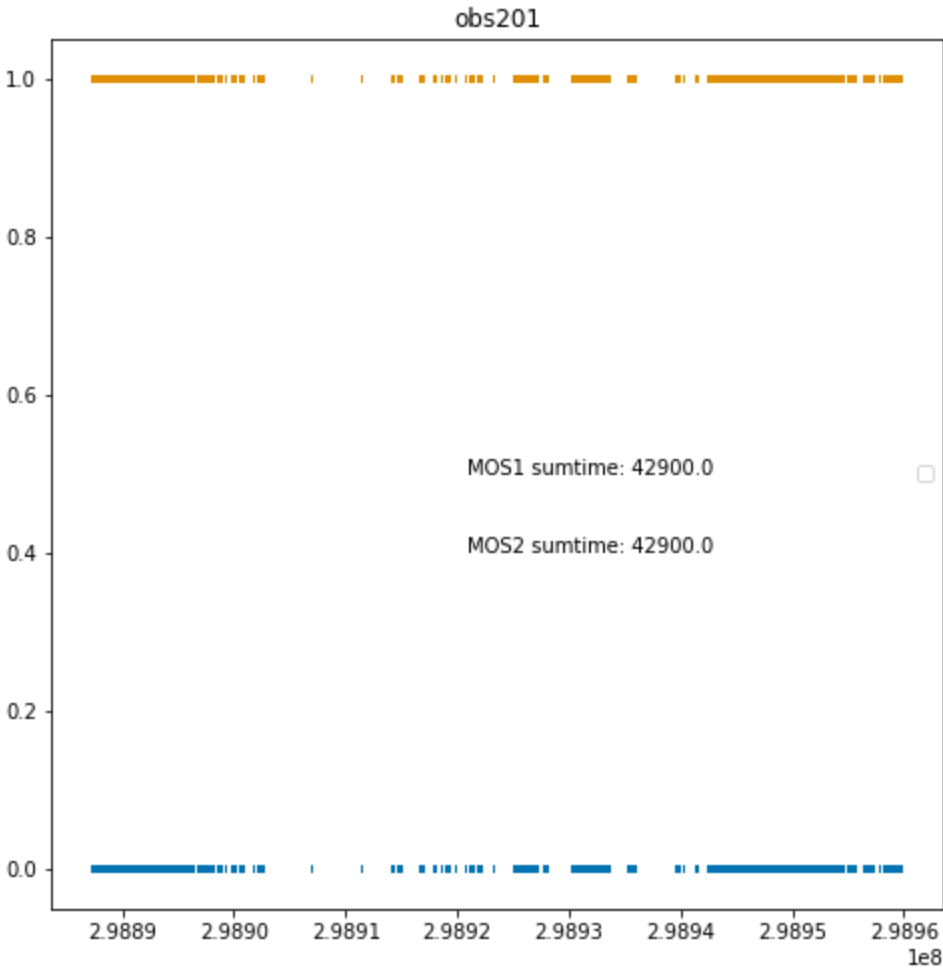
imshow the data

0. prereduction data

1. Extract lc

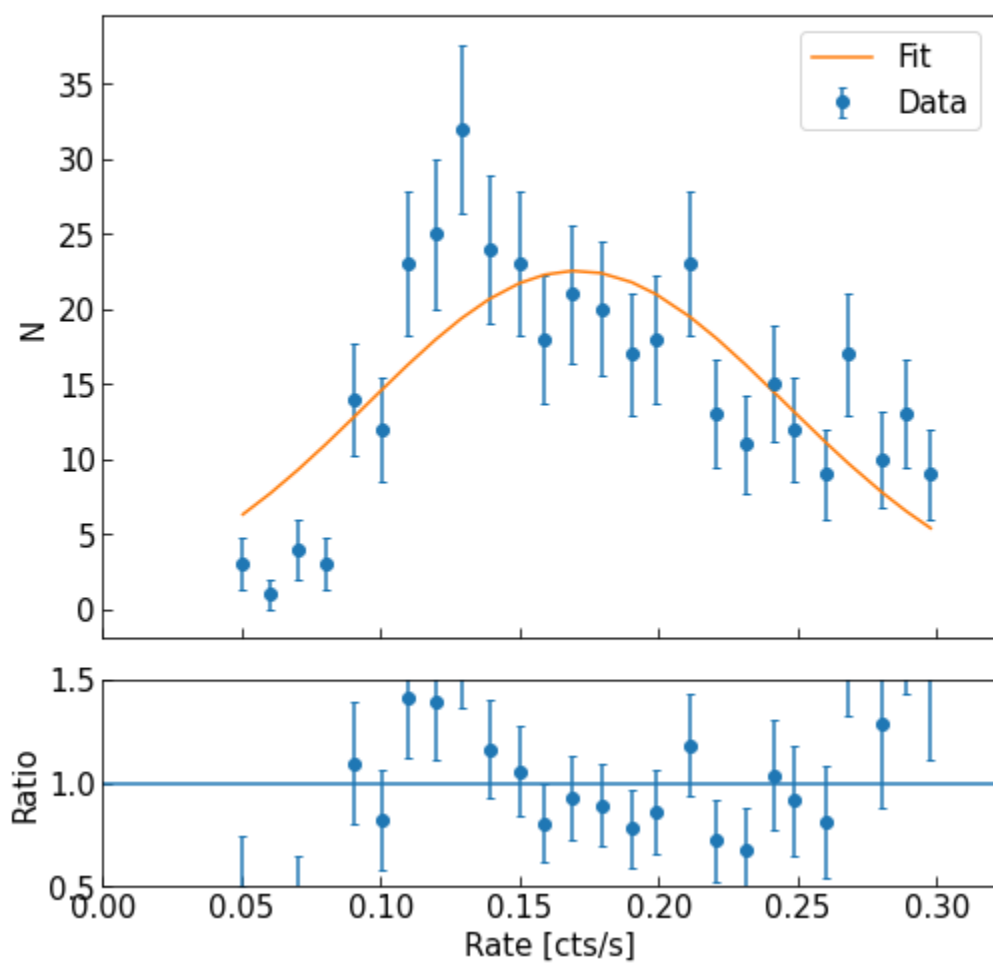
plot lightcone

No artists with labels found to put in legend. Note that artists whose label start with an underscore are ignored when legend() is called with no argument.



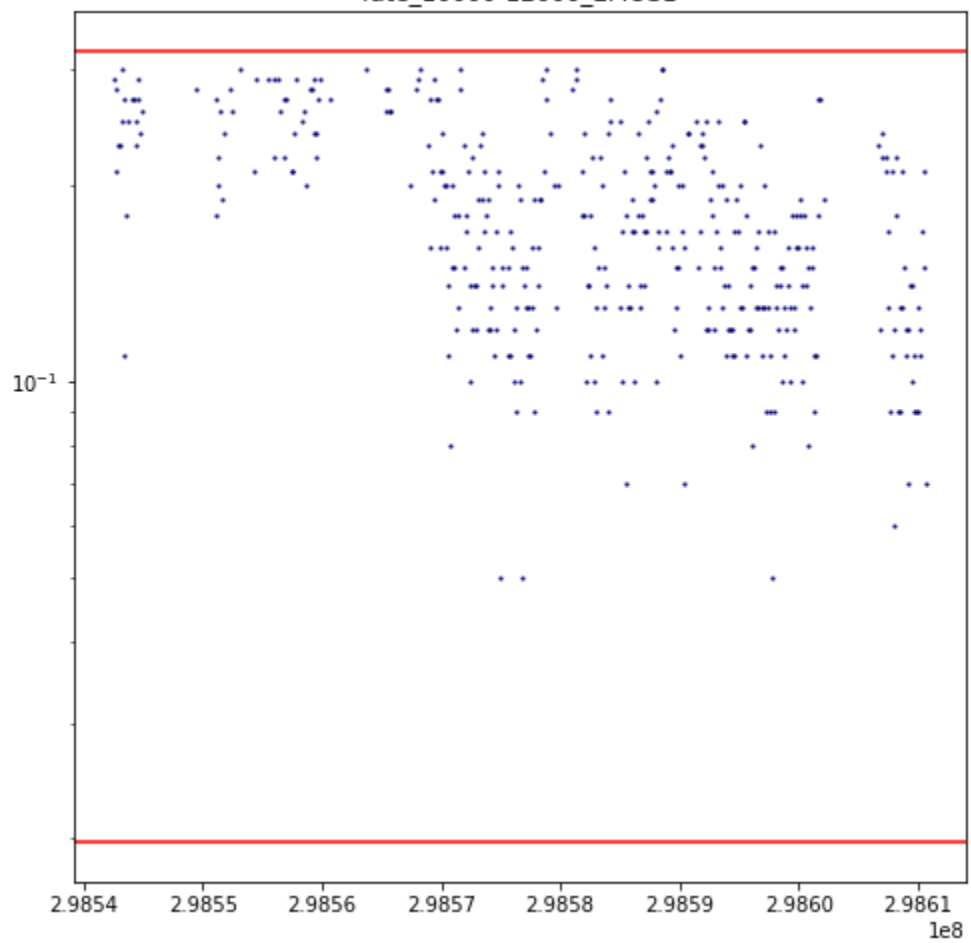
fit lightcone with gaussian to determine the most stable ctr upper limit

filter data based on gaussian fit and visual inspect

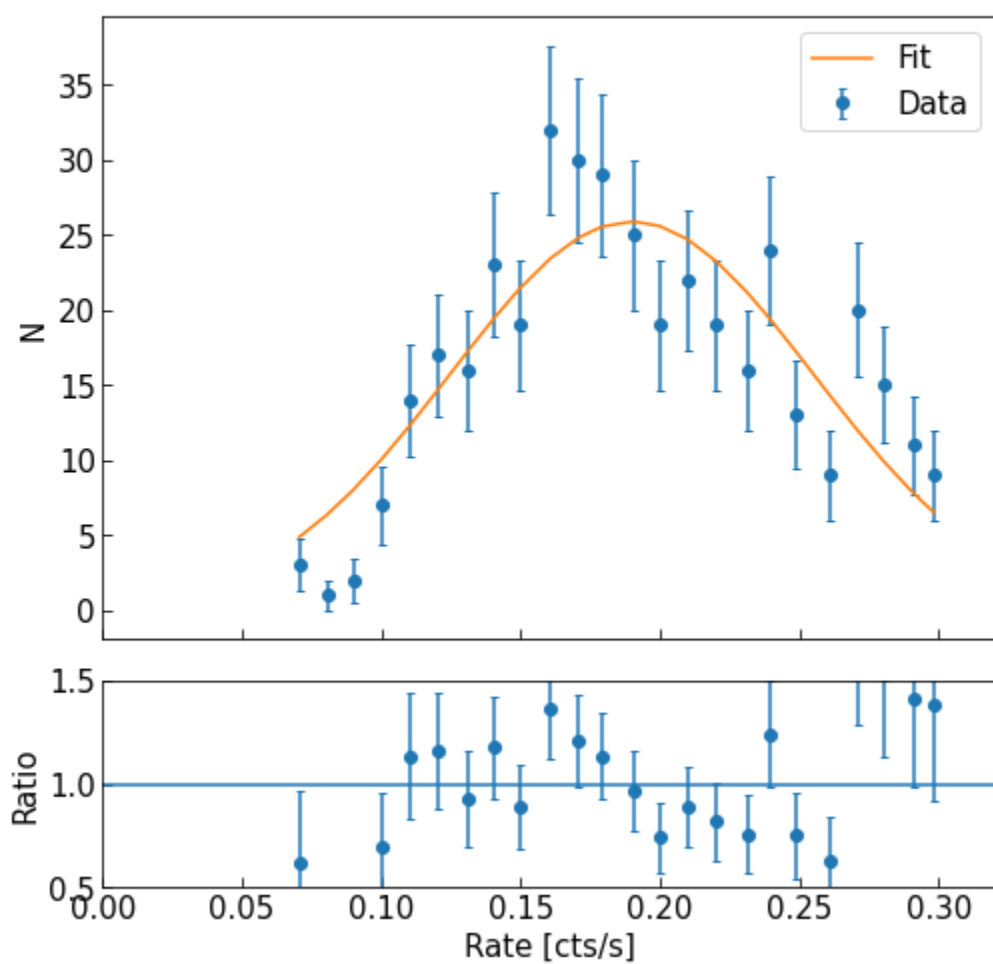


<Figure size 432x288 with 0 Axes>

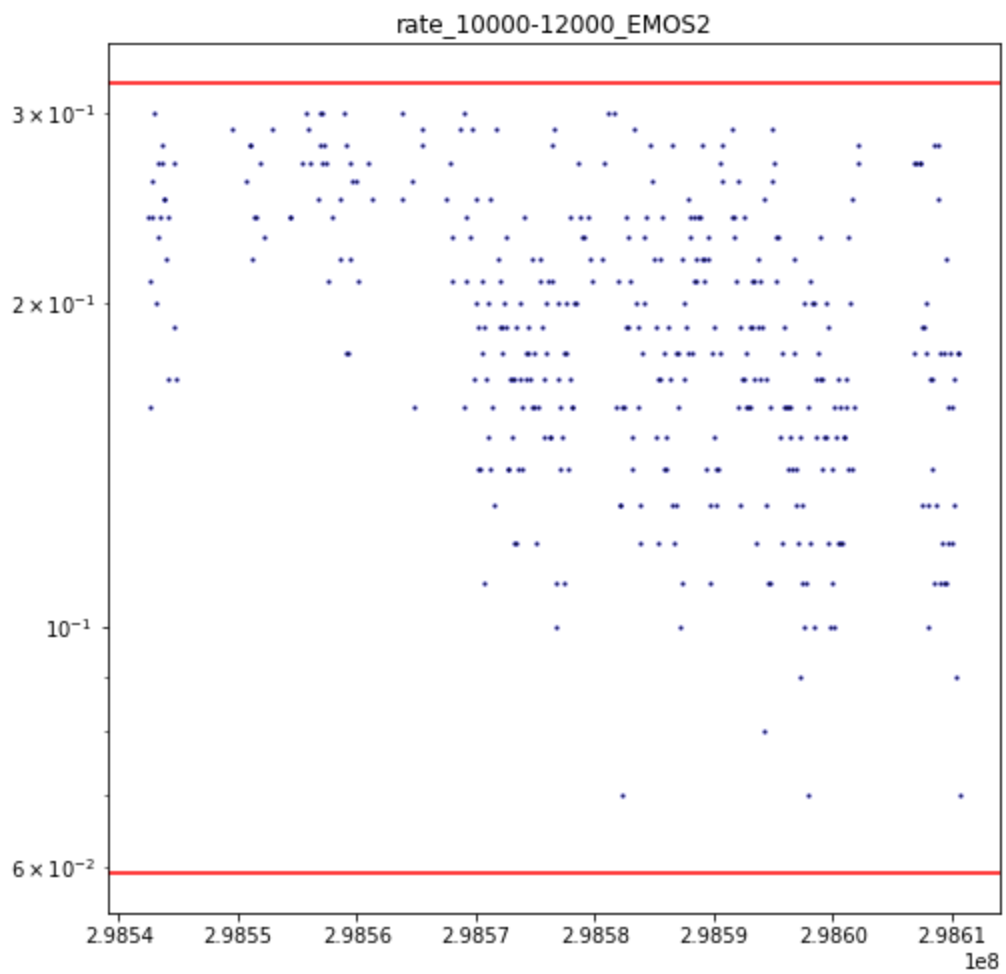
rate_10000-12000_EMOS1

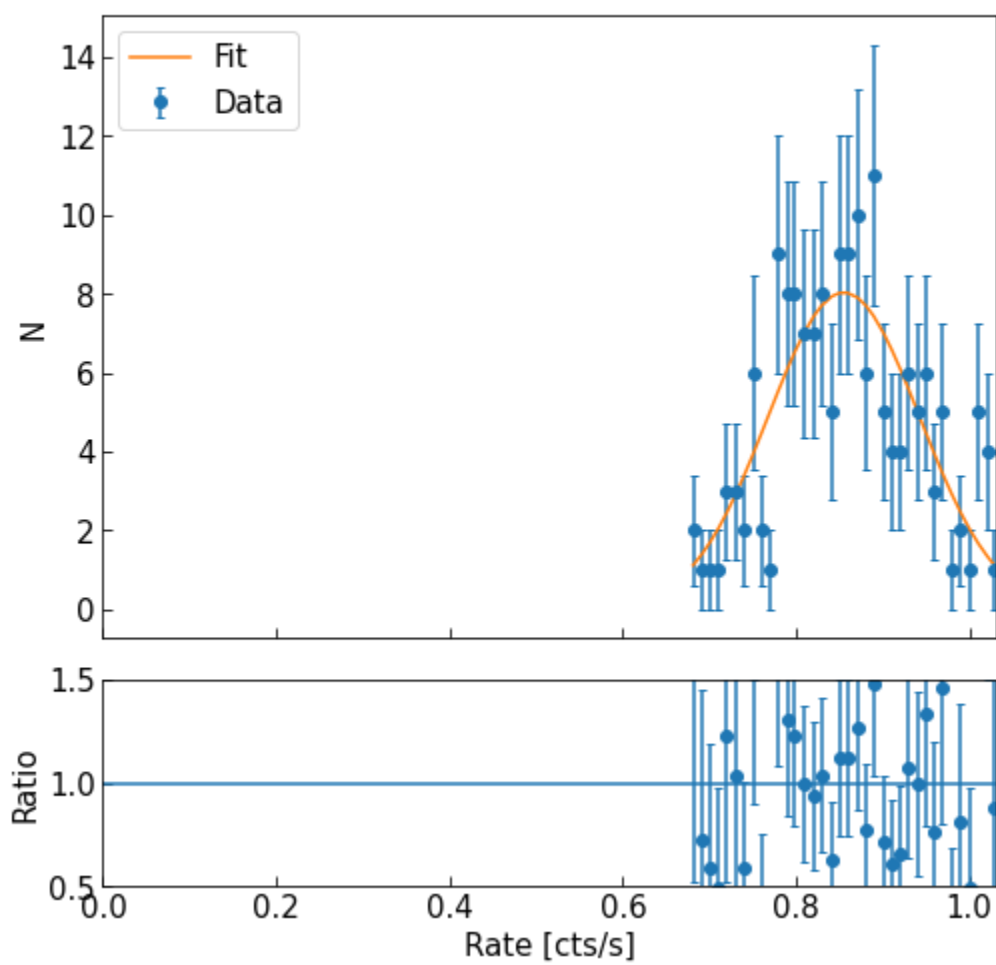


rate_10000-12000_EMOS2

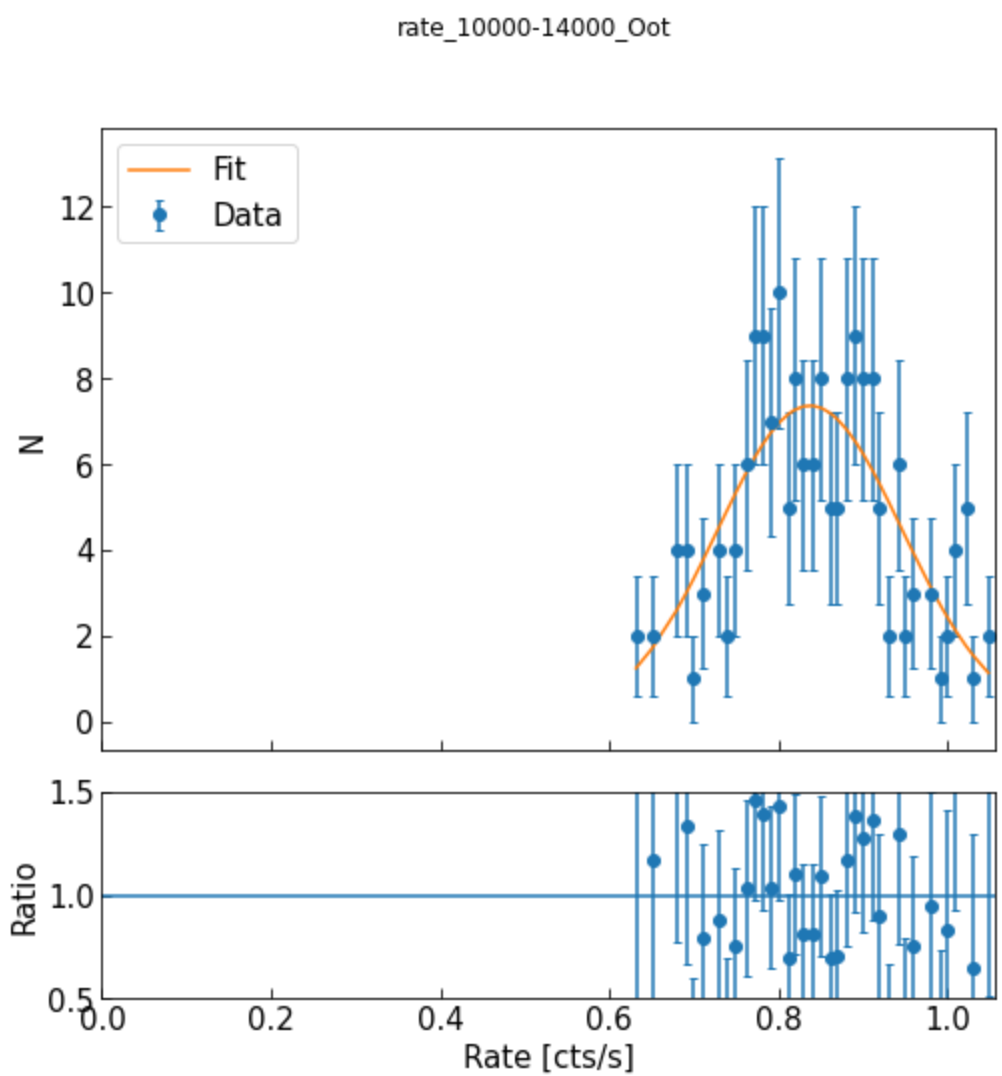
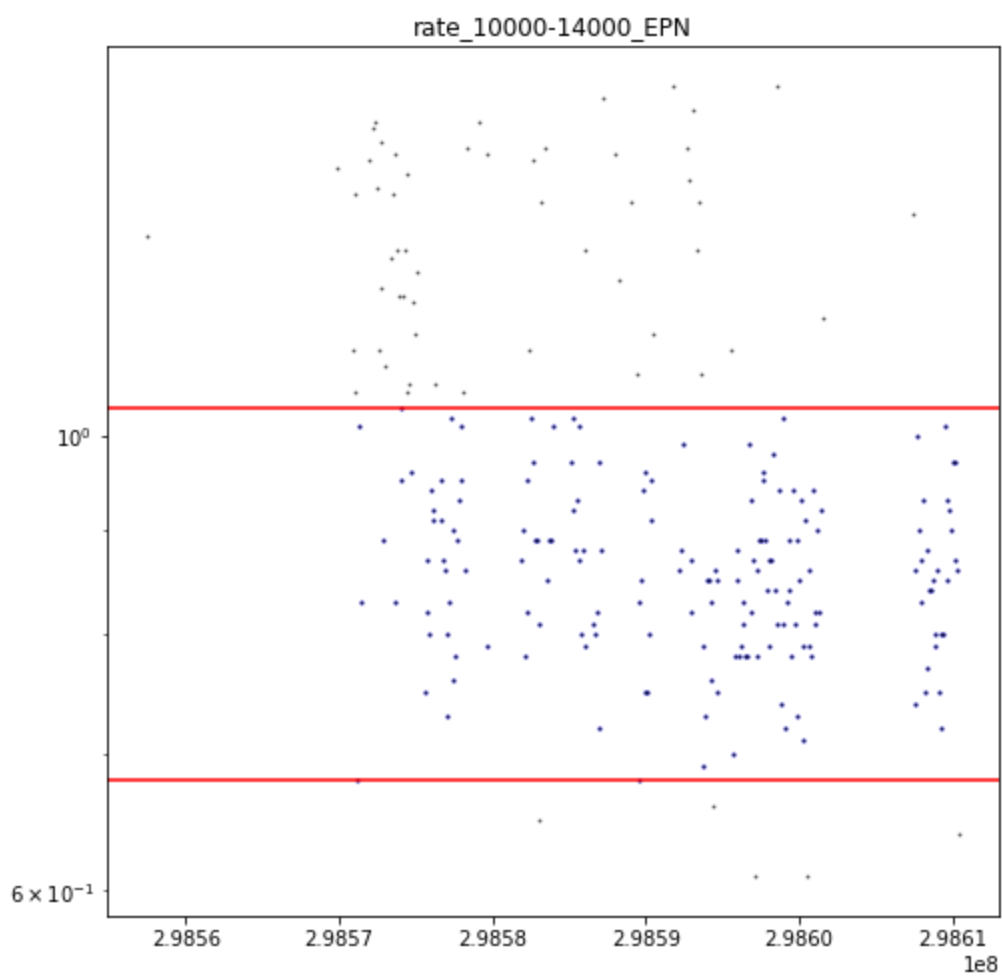


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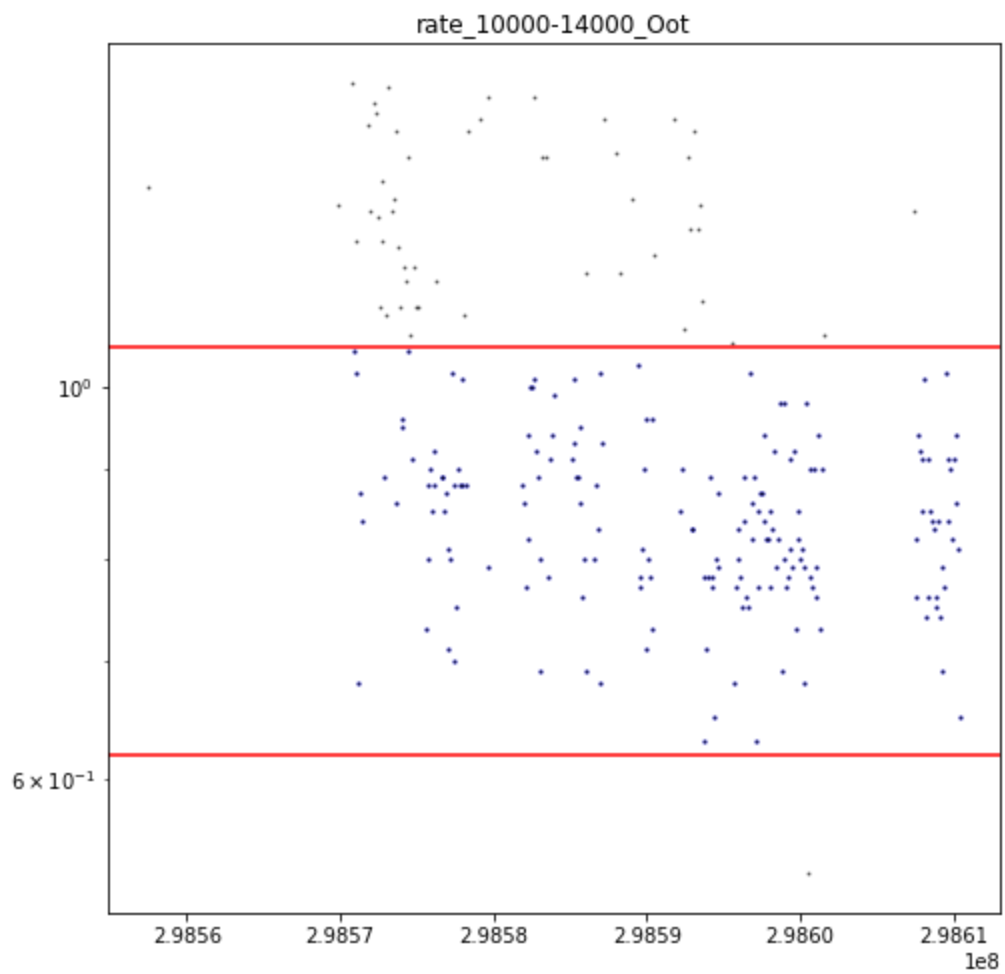




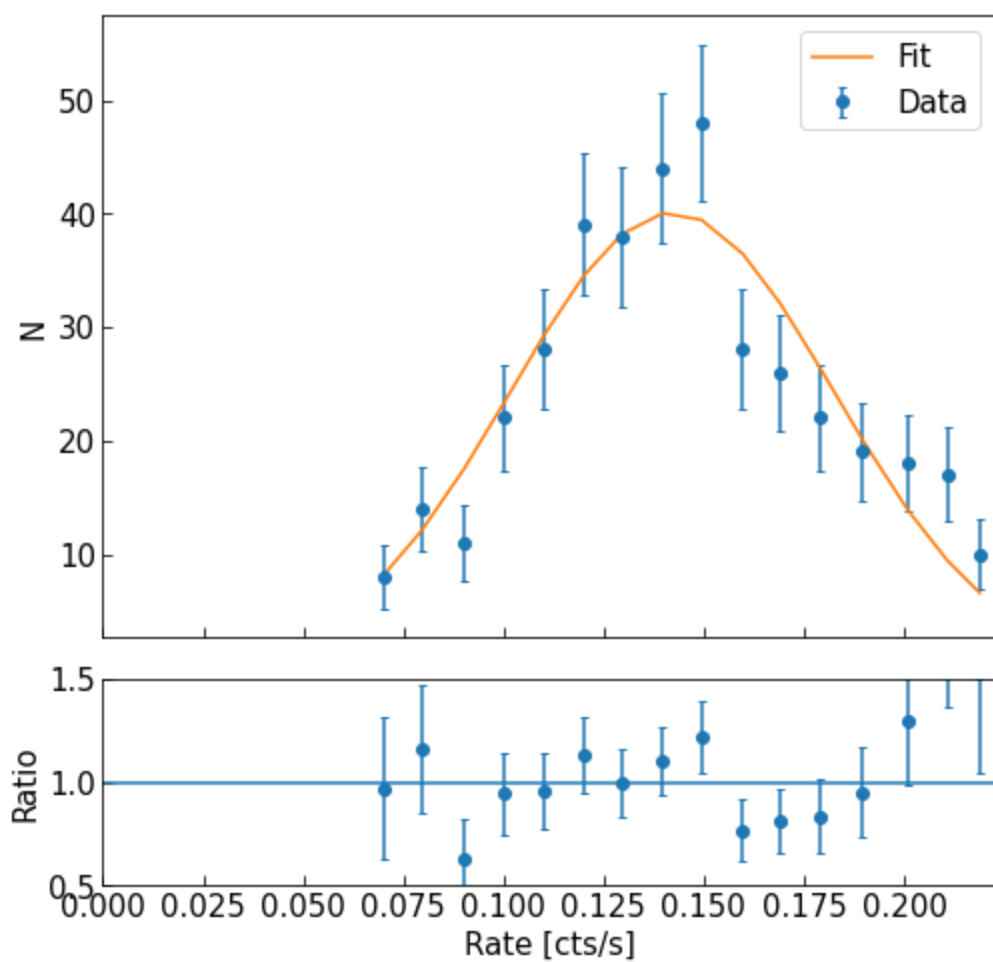
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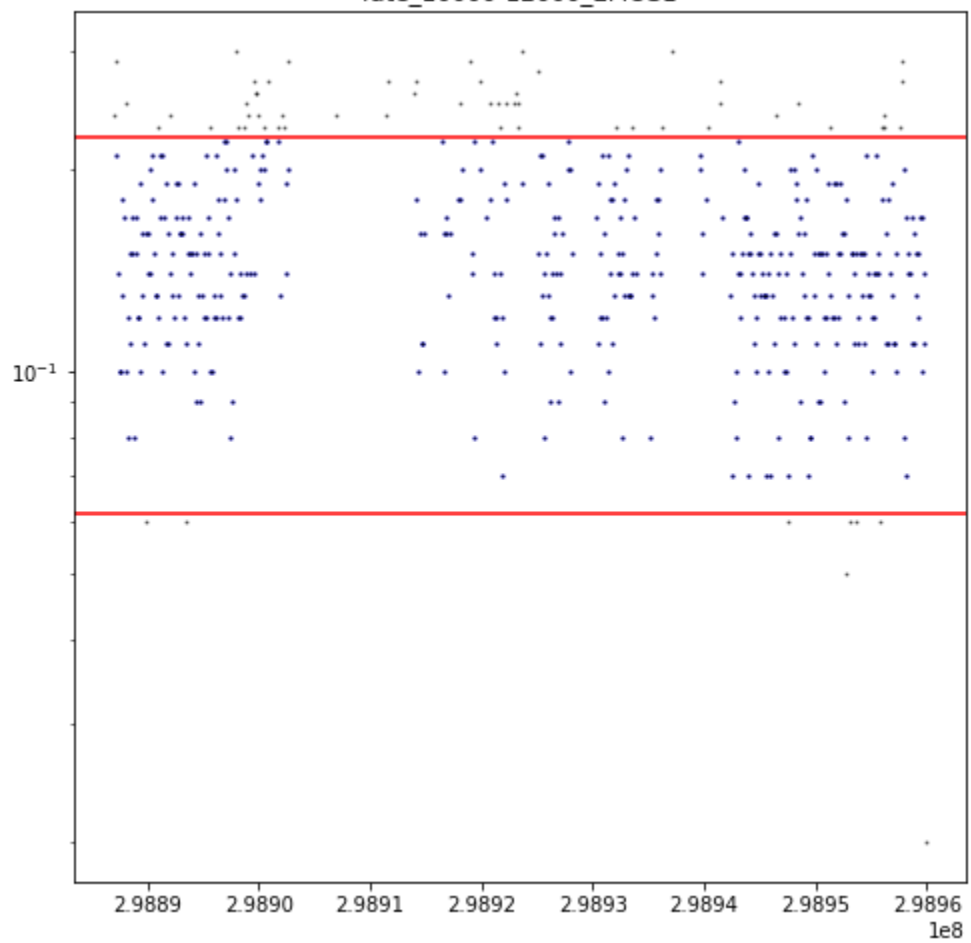


rate_10000-12000_EMOS1

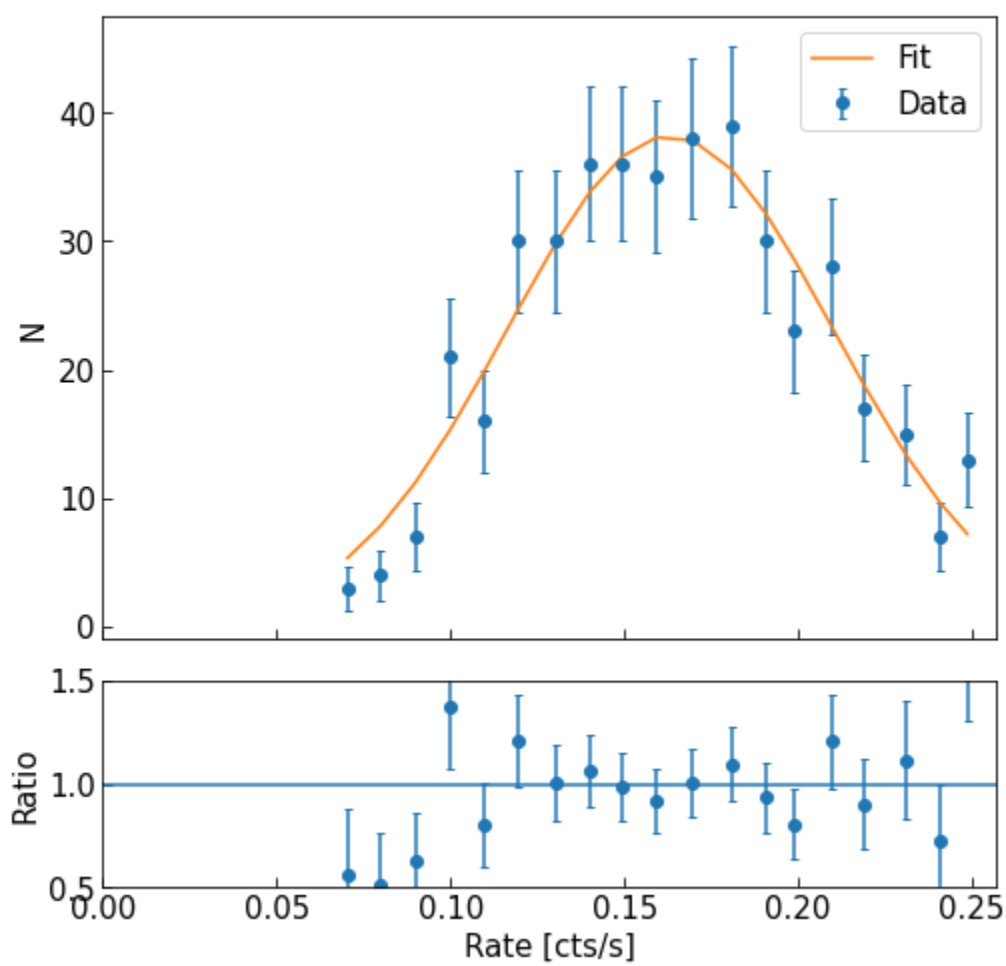


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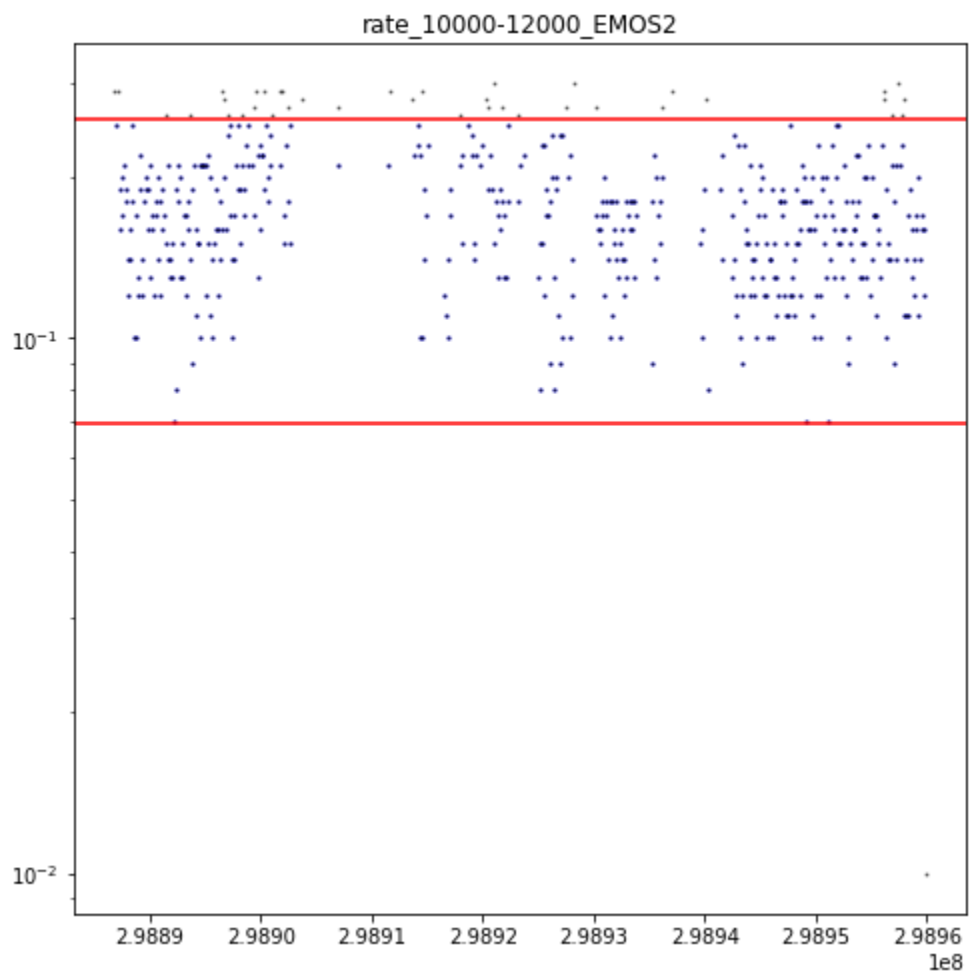
rate_10000-12000_EMOS1

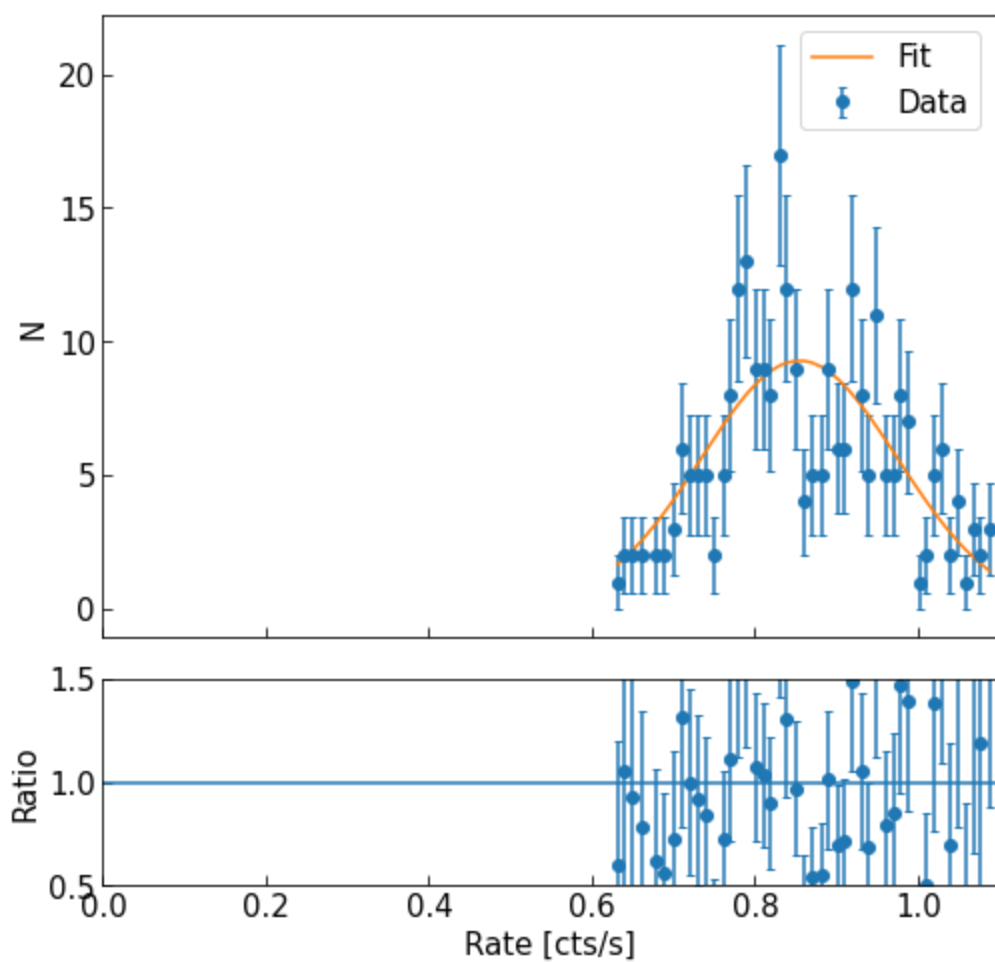


rate_10000-12000_EMOS2



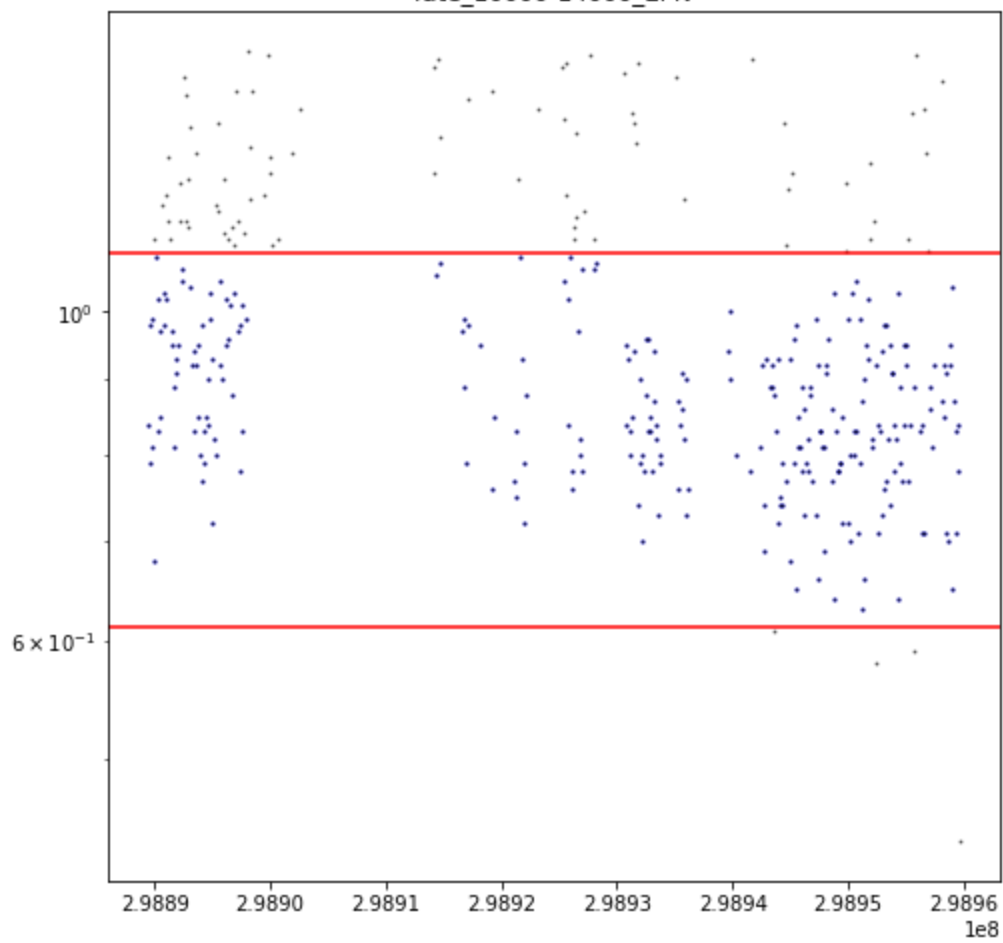
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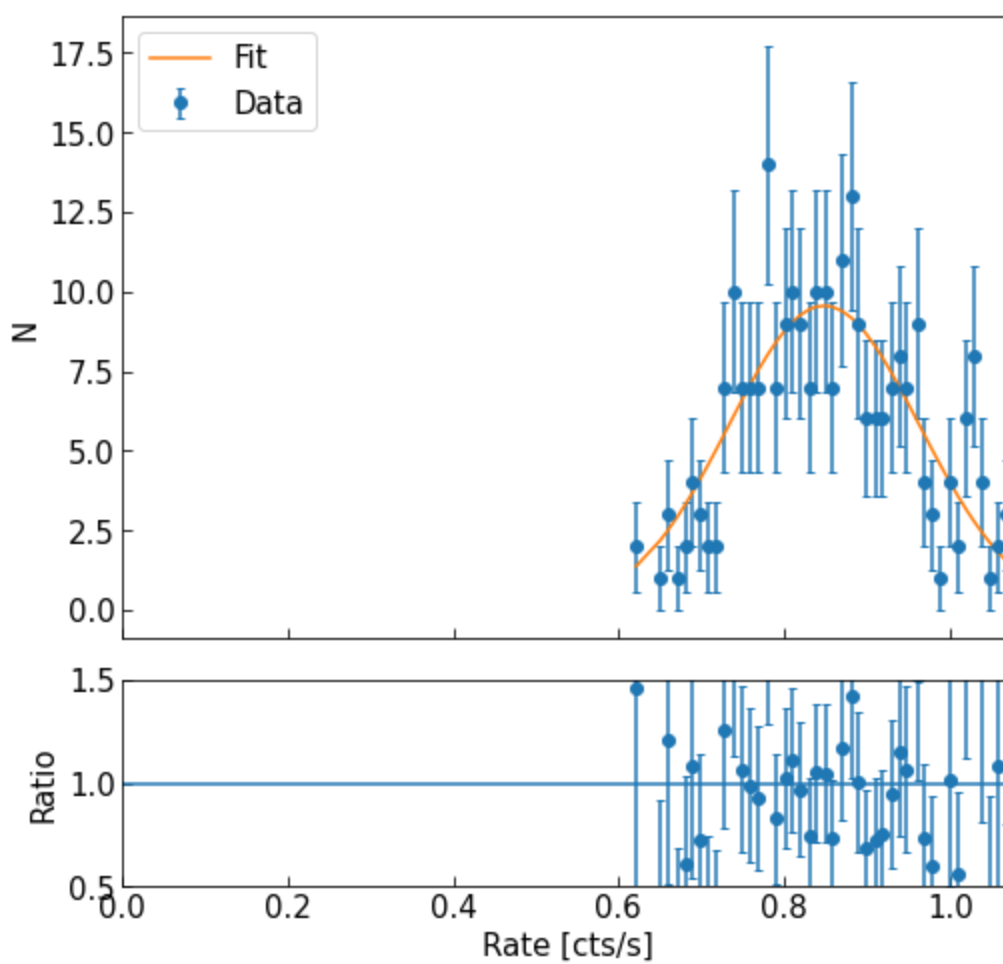


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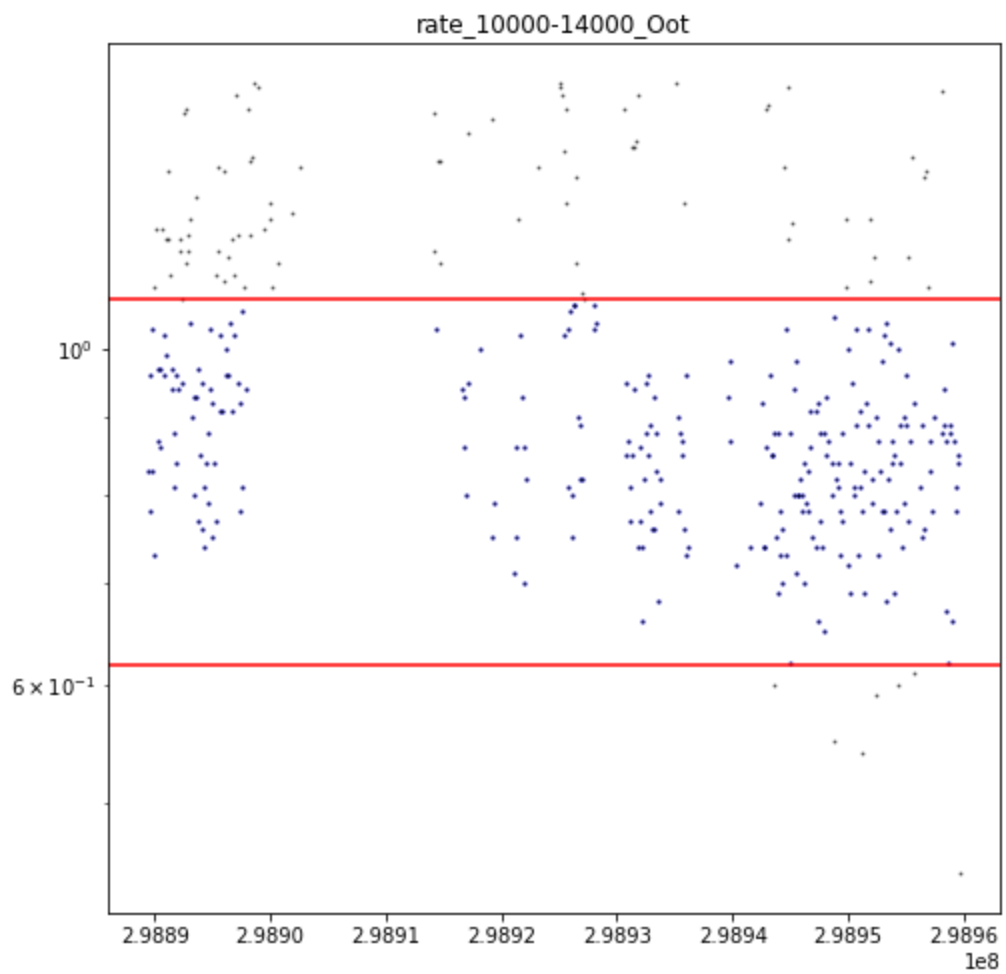
rate_10000-14000_EPN

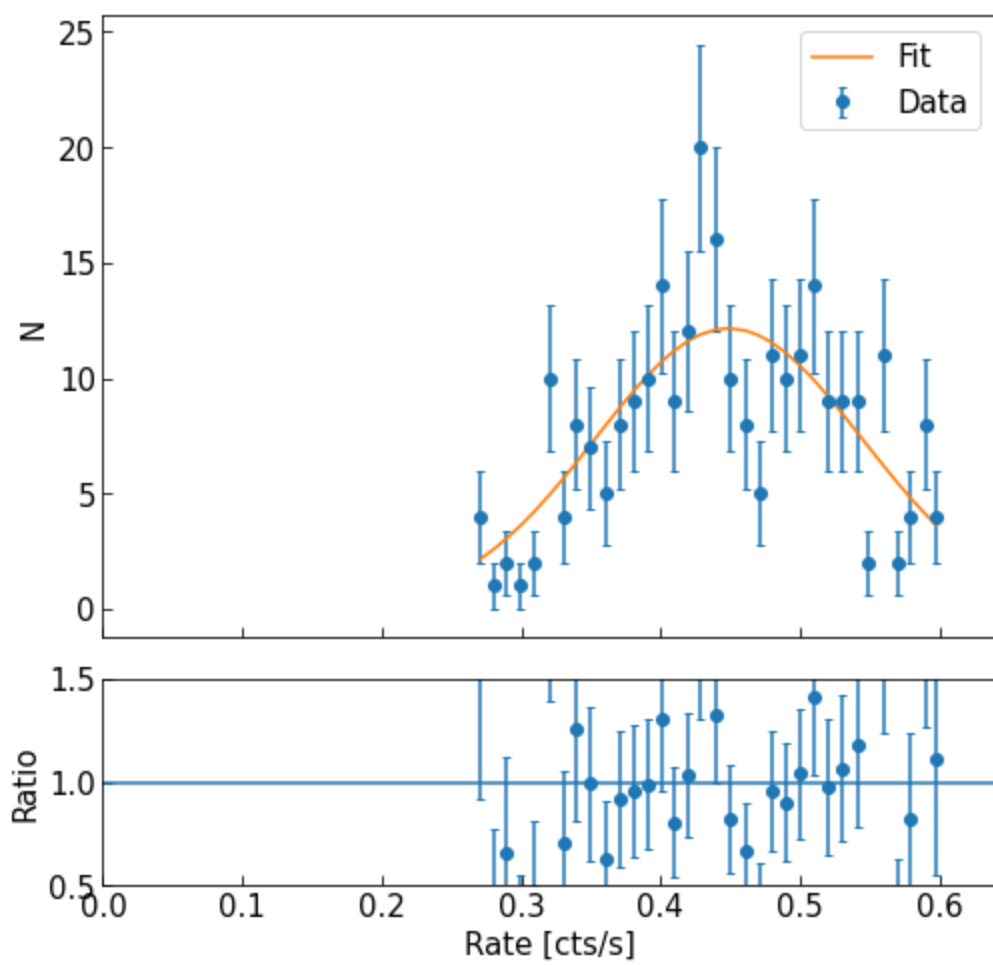


rate_10000-14000_Oot



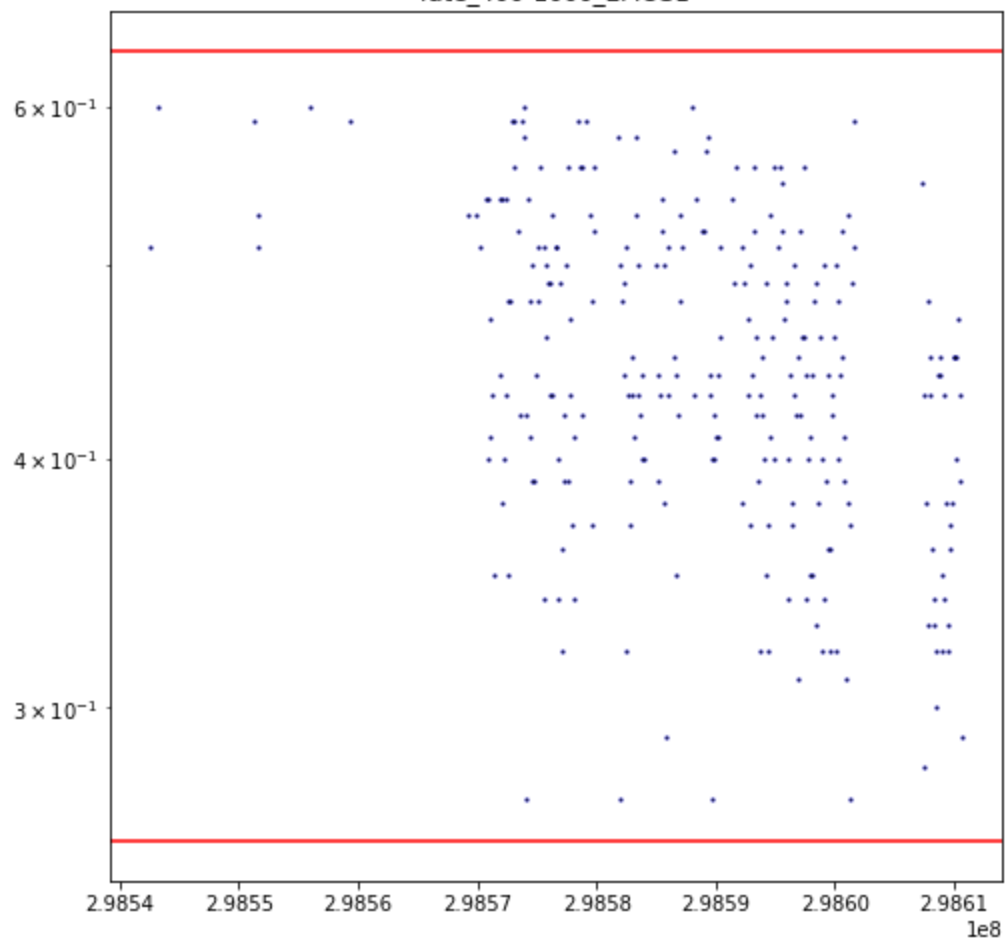
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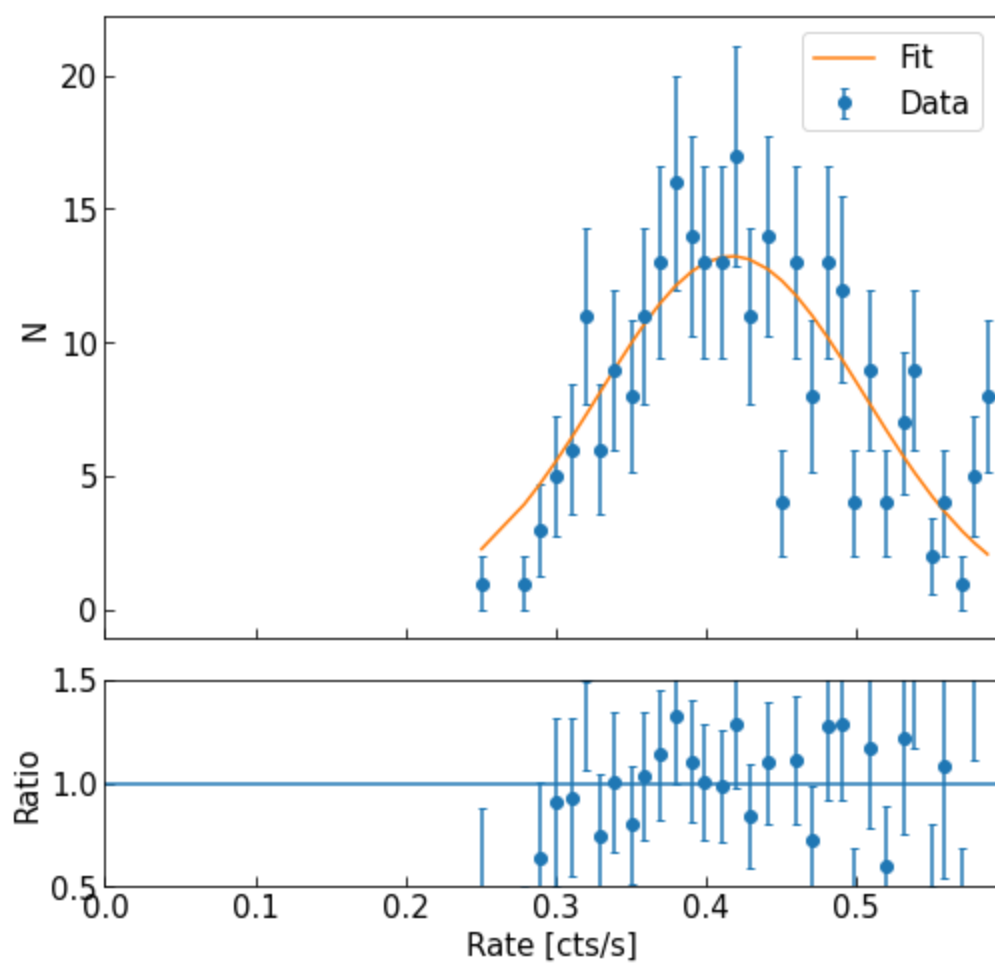


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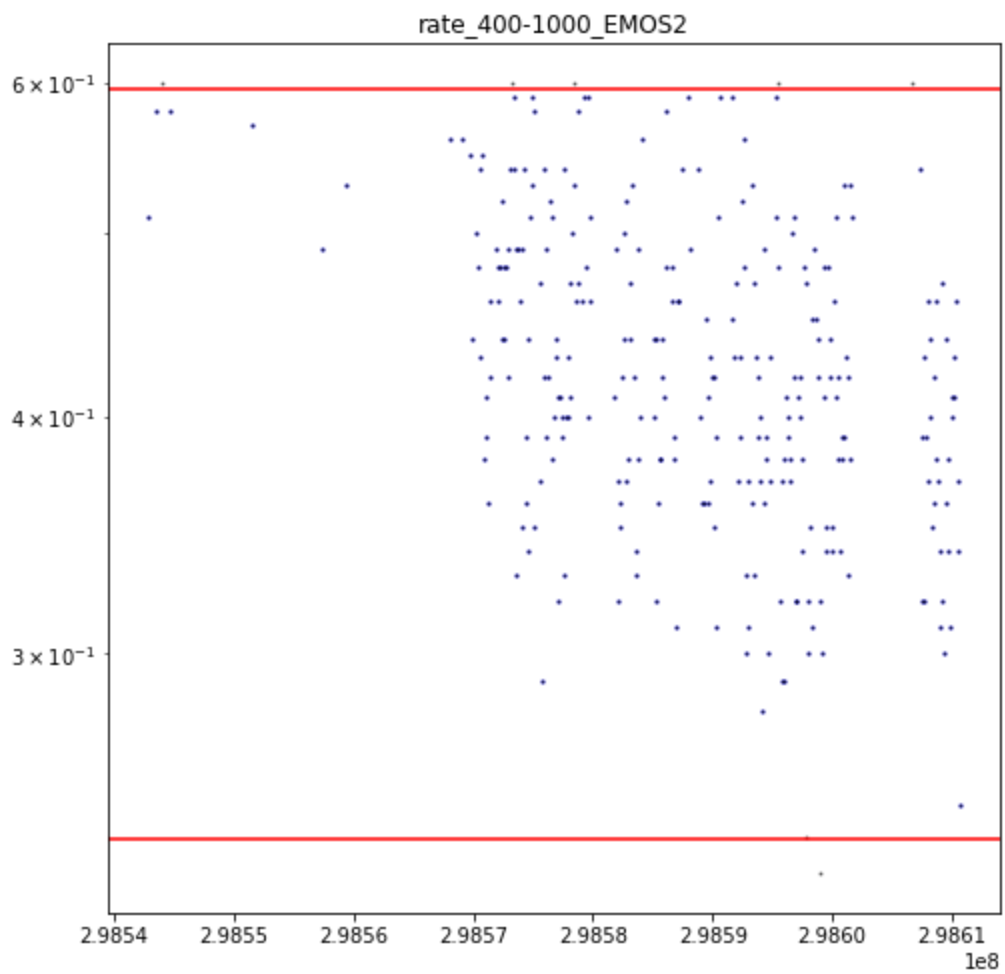
rate_400-1000_EMOS1

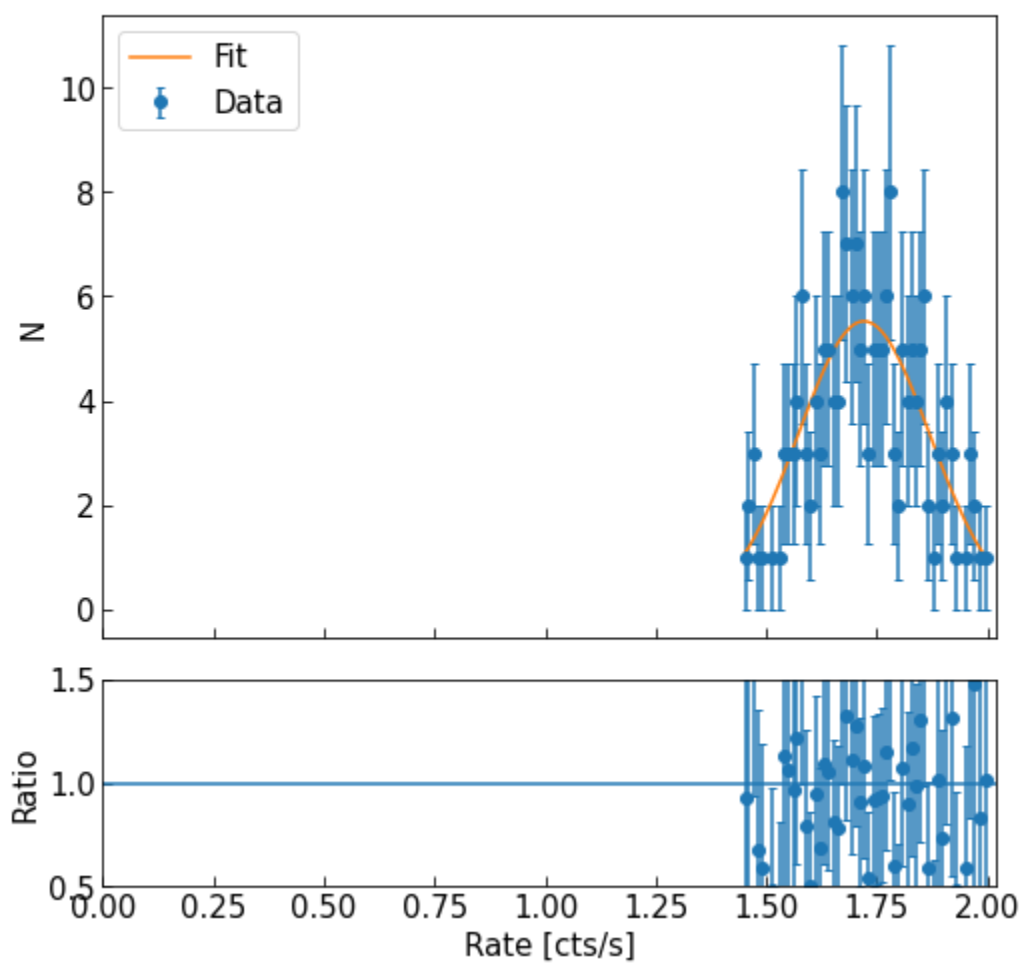


rate_400-1000_EMOS2



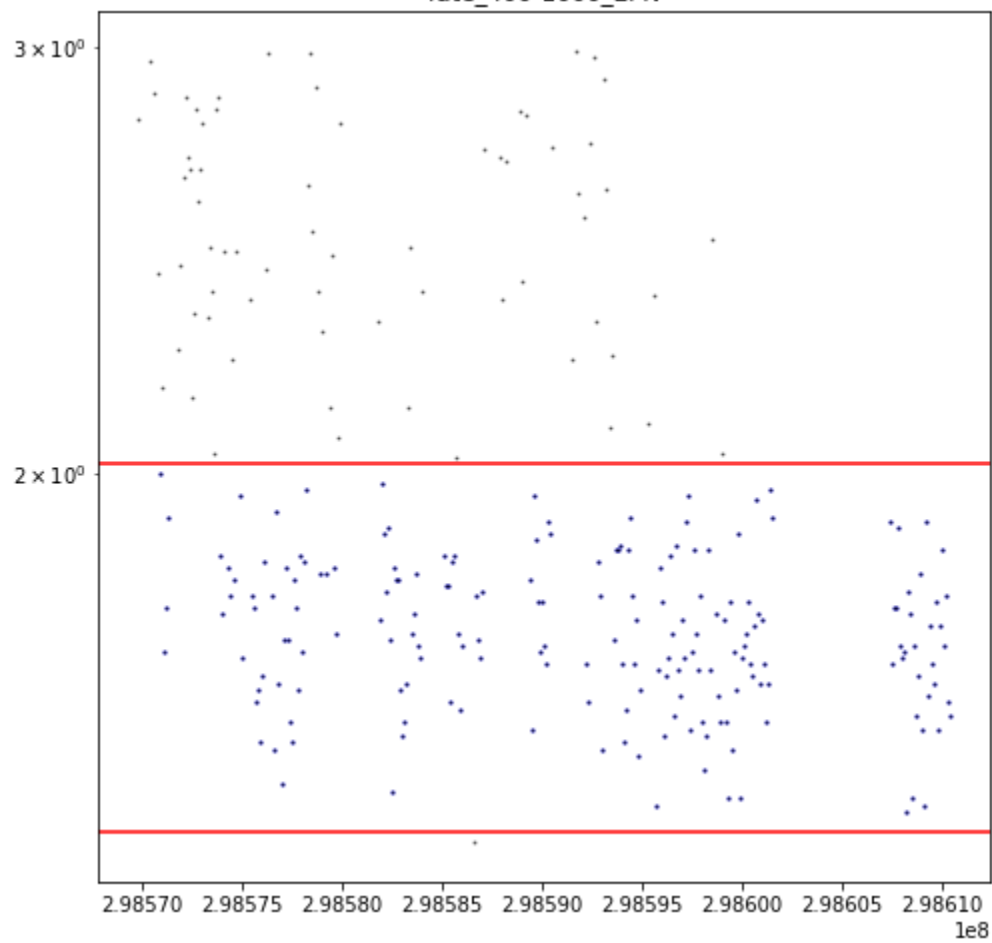
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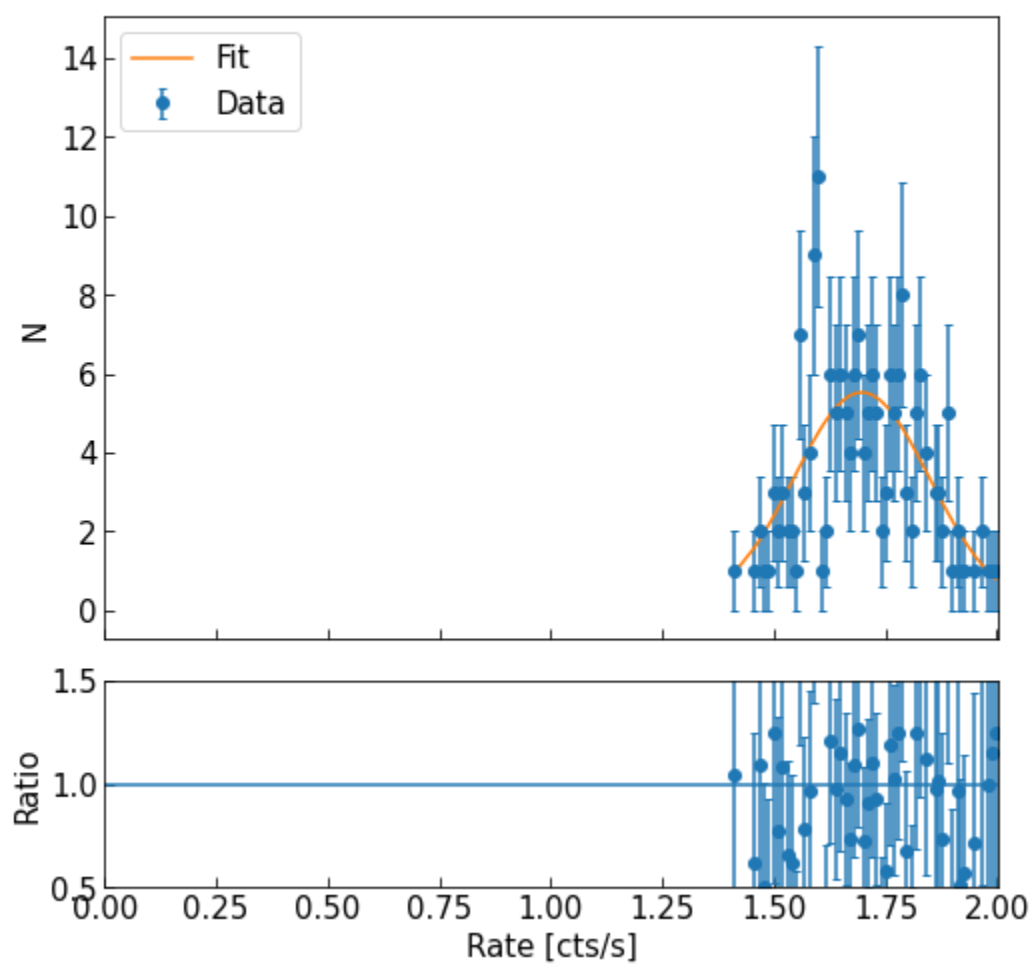


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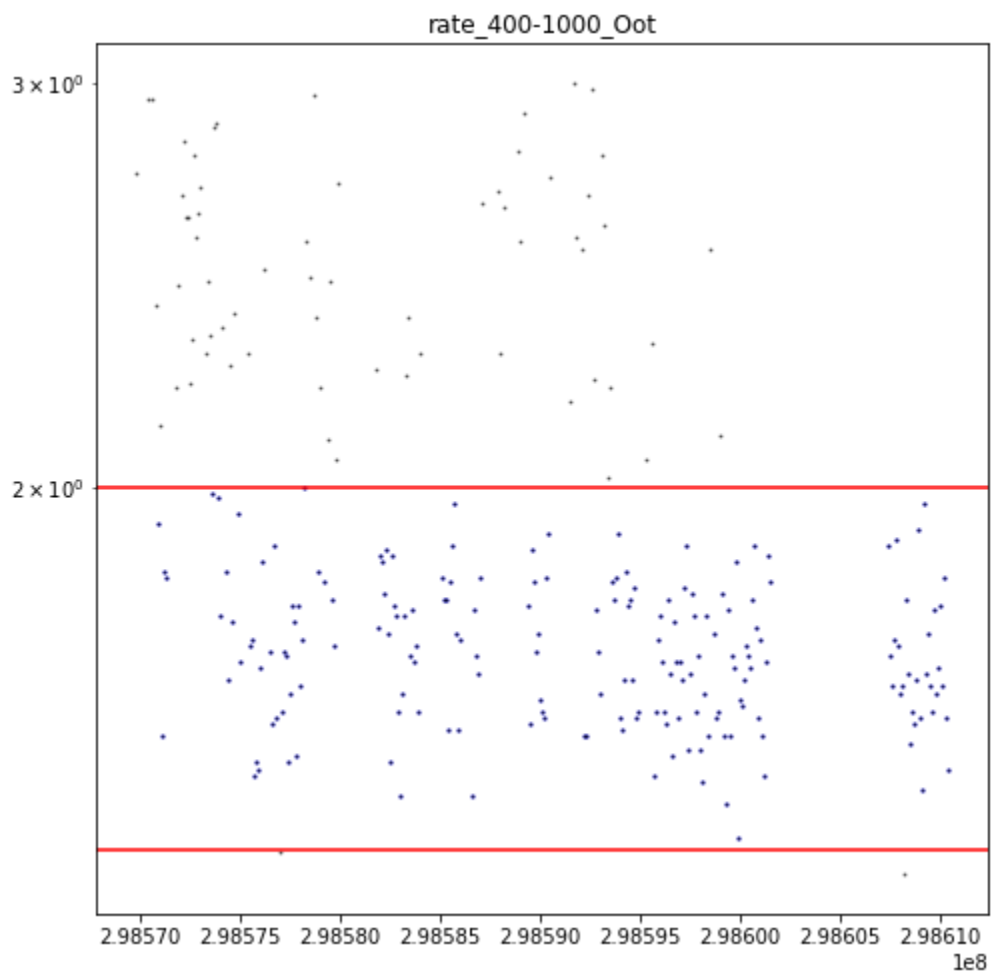
rate_400-1000_EPN

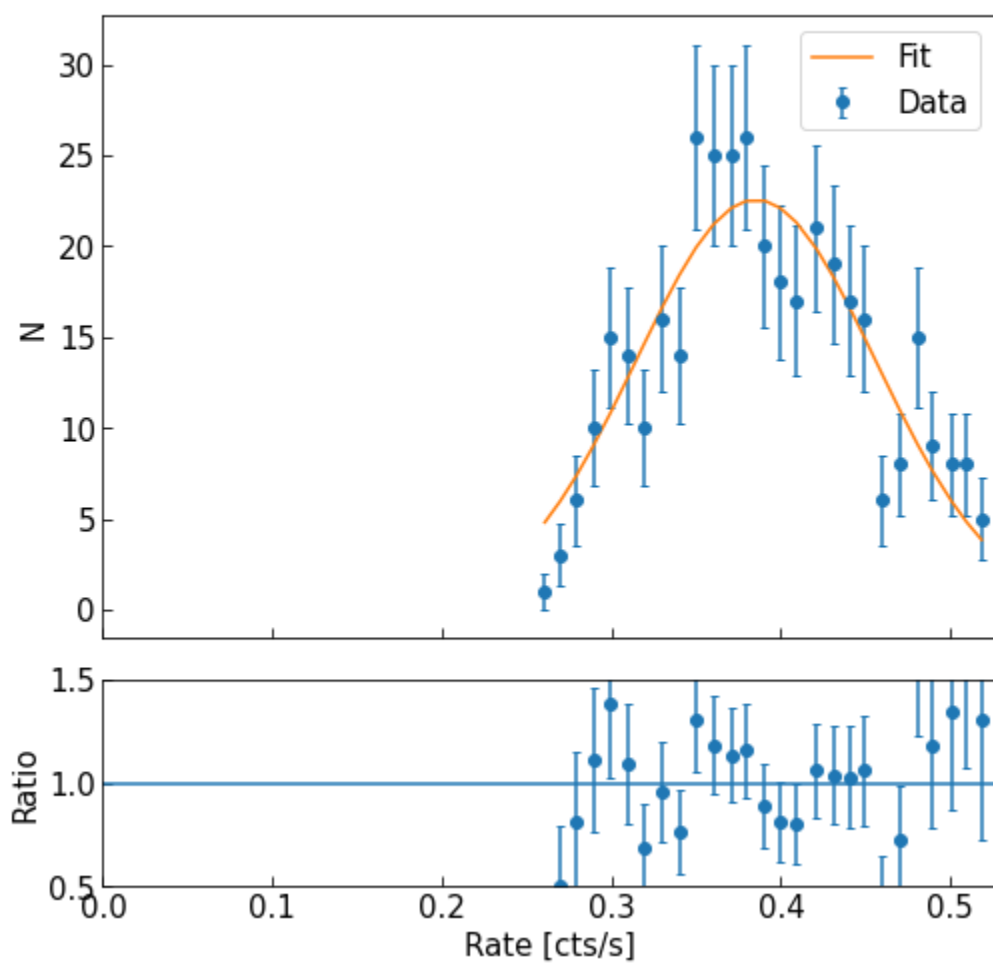


rate_400-1000_Oot



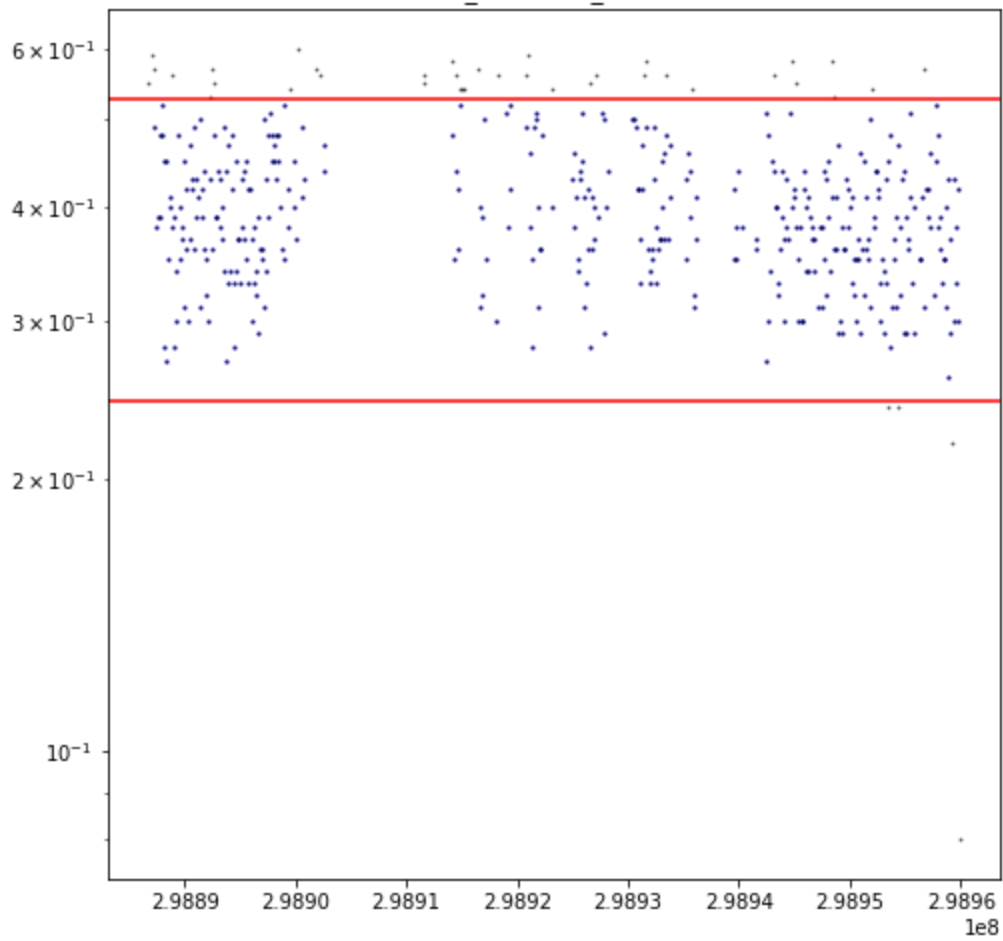
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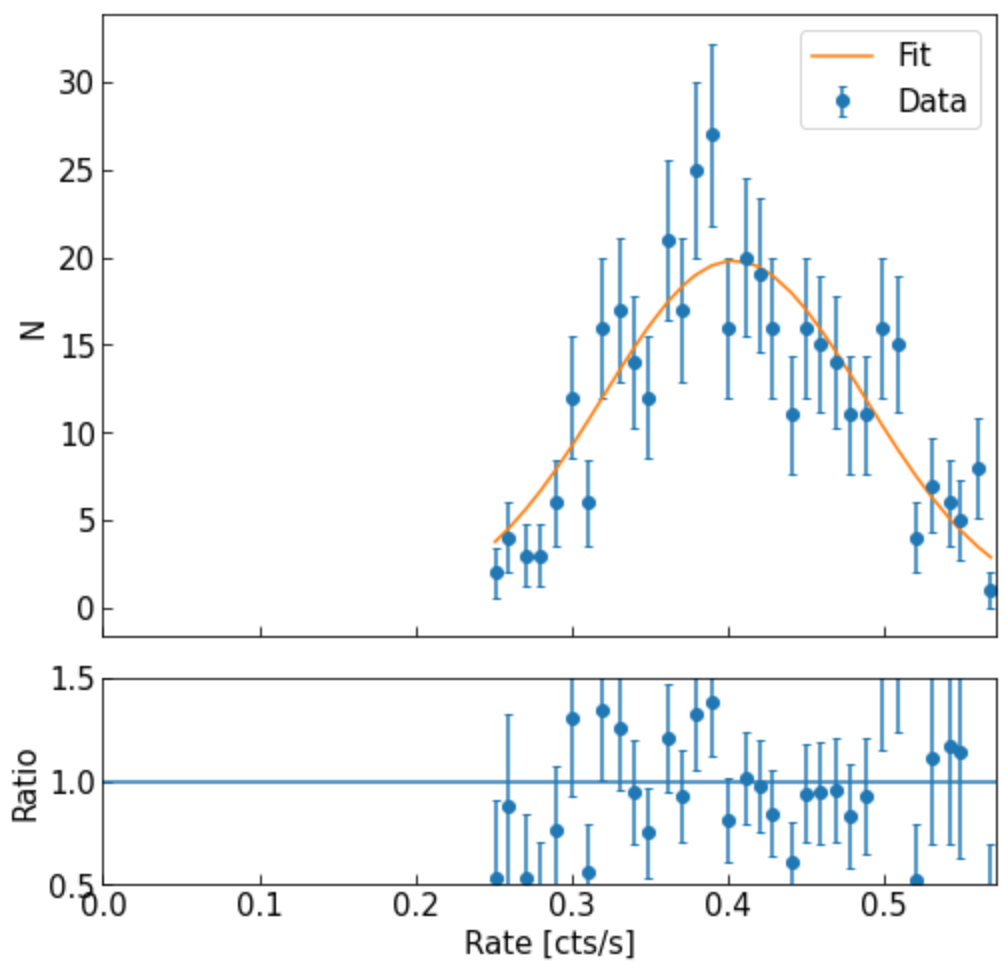


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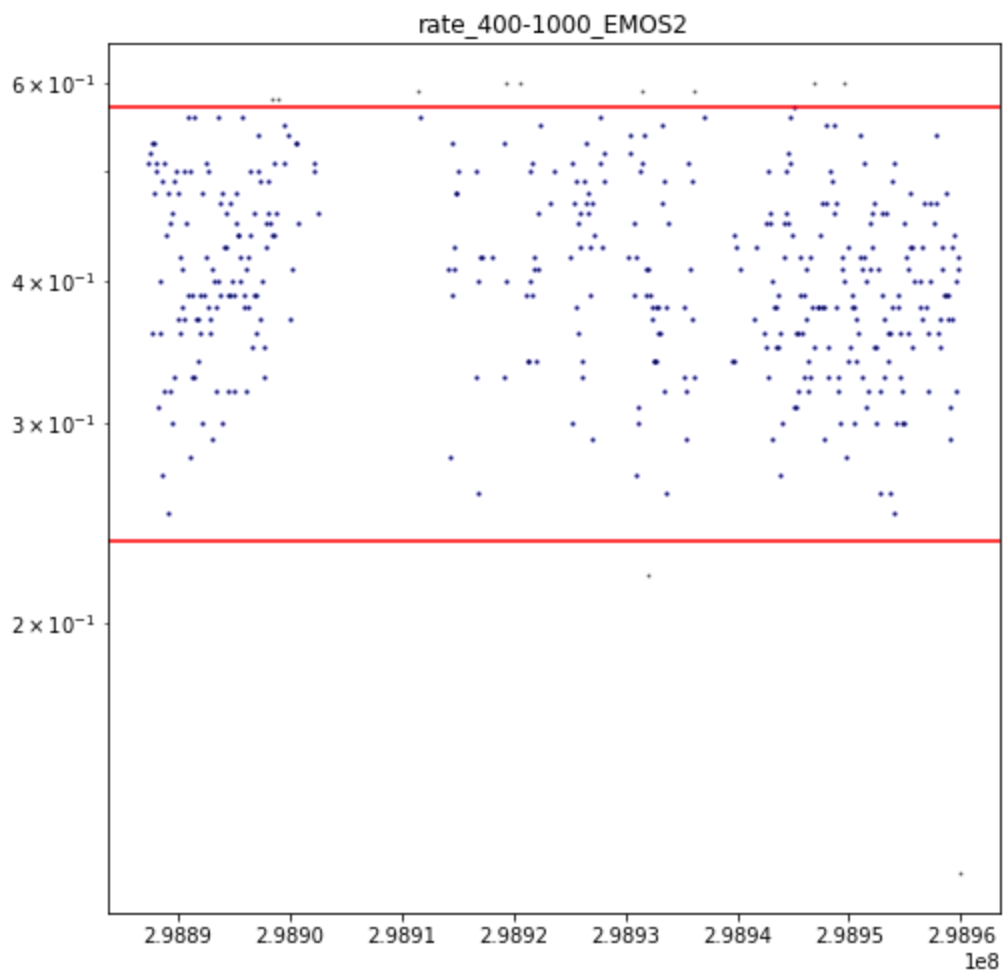
rate_400-1000_EMOS1

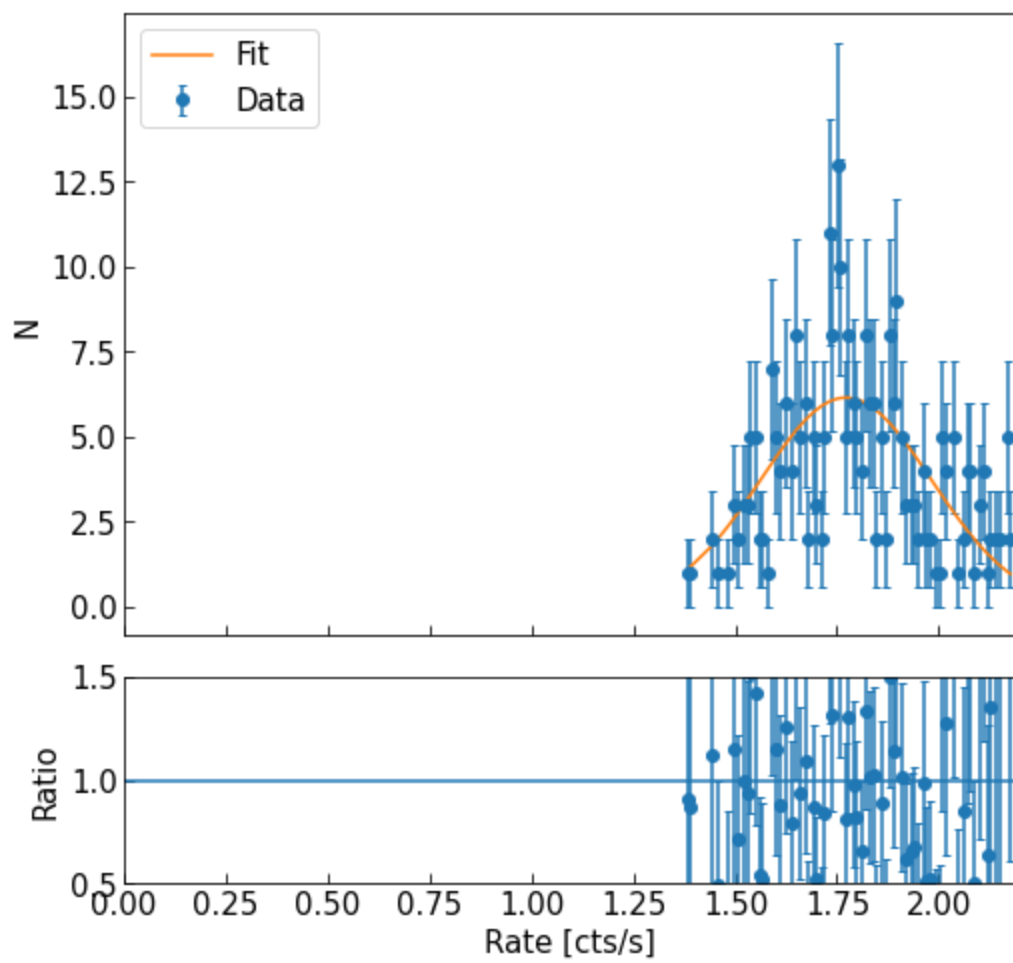


rate_400-1000_EMOS2

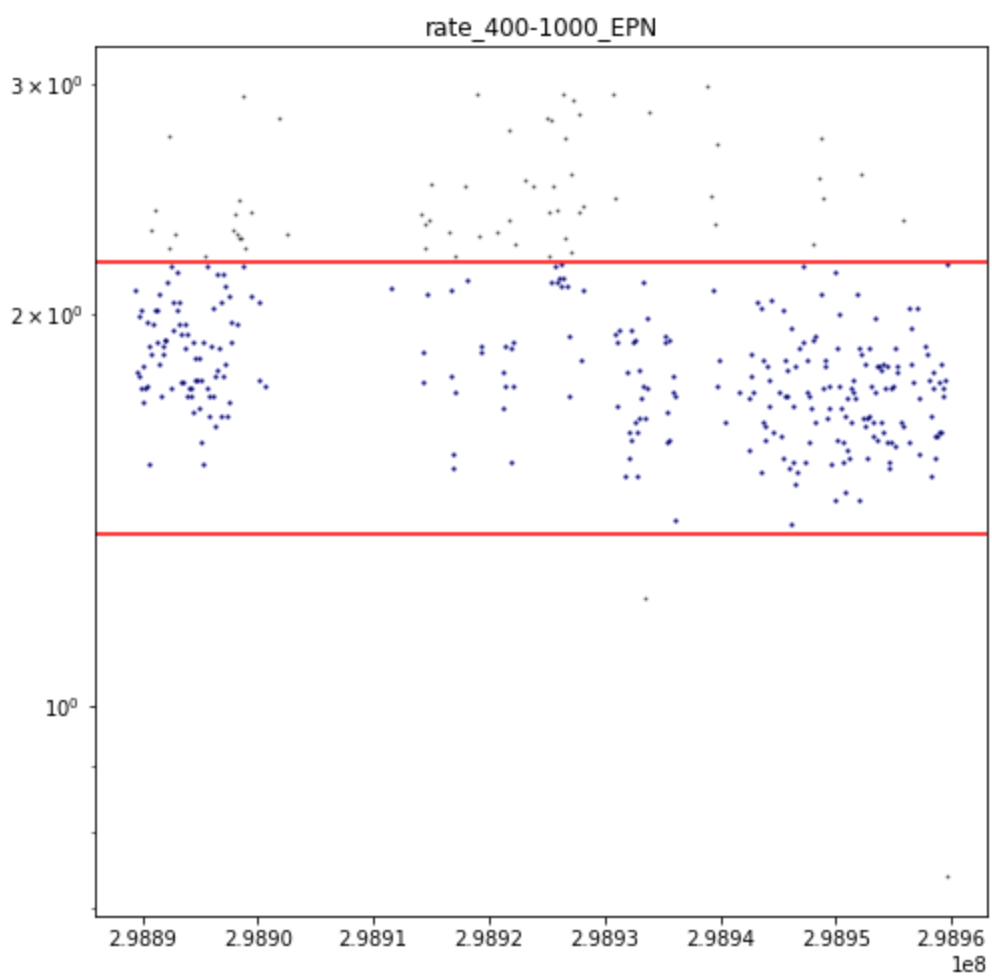


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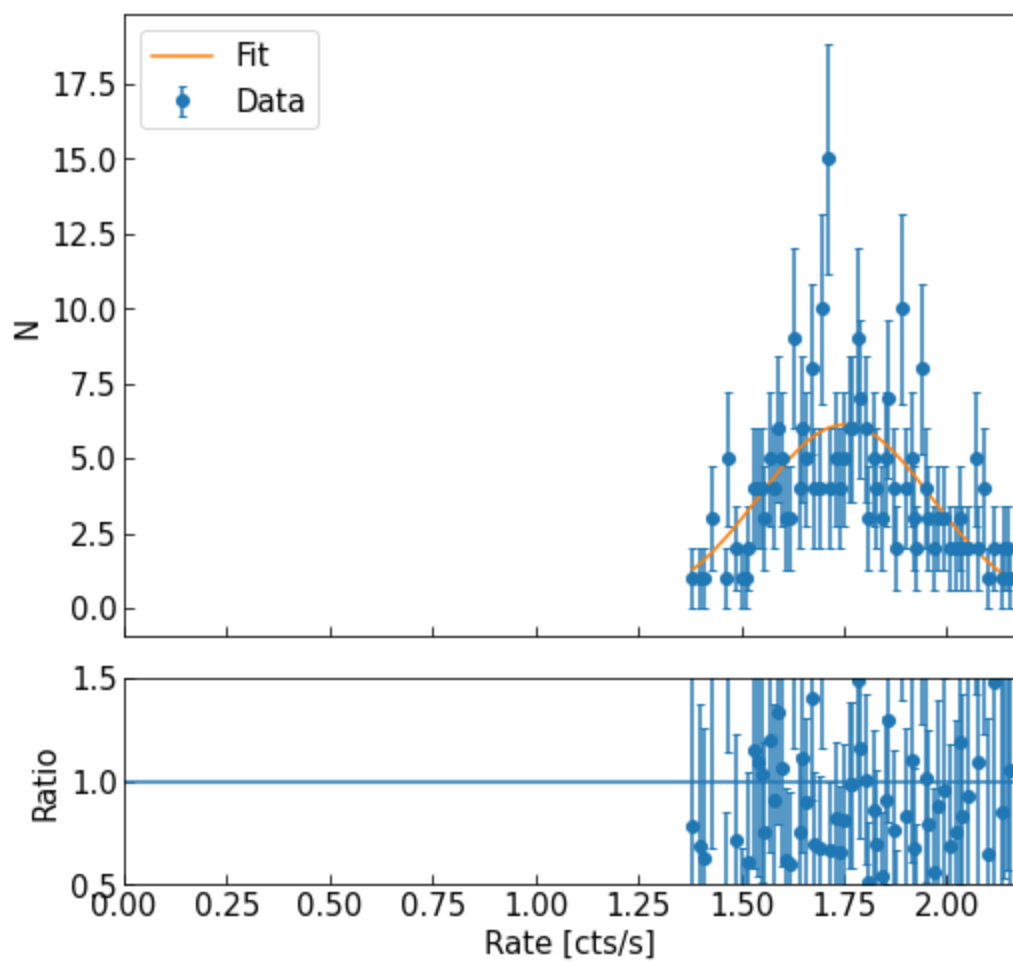




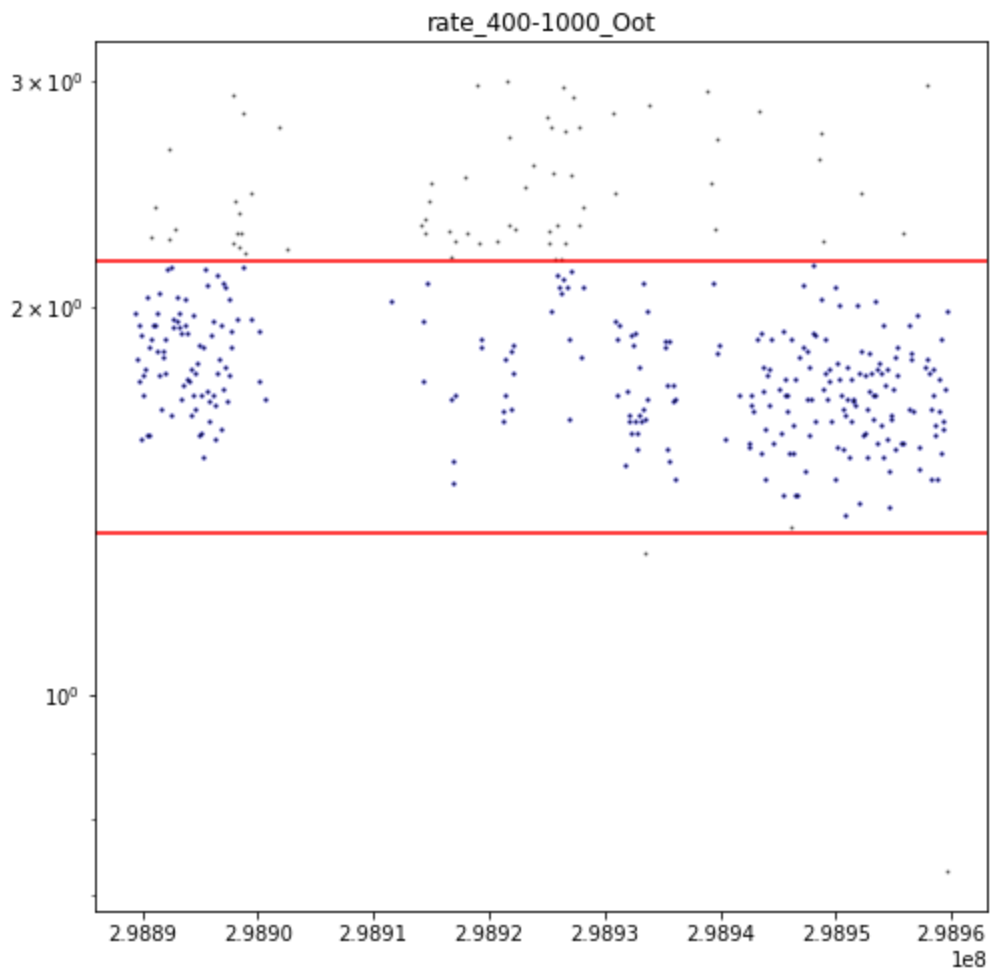
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rate_400-1000_Oot



<Figure size 432x288 with 0 Axes>



2. Extract image

check the exptime of the image

manage pn image (subtract oot data)

filter bkg events by gaussian filtering gti

reproject bkg events

determine bkg new scales (which varies with counts and bkg images)

extract and scale the bkg images

manage PN images

check the images

3. emosaic image and bkg images, and subtract image with bkg

remember to generate bkg images for new energy bands in xmm_bkg_extraction.ipynb!

merge btw instruments

emosaic all images

subtract bkg

only merge mos1, mos2

5. wavdetect xmm

create fov image

perform wavdetect

perform emldetect

run srcflux

1. define bkg regions

combine regions from fits files in reg file and check

run srcflux !srcflux can't run XMM dataset!

use wavdetect to briefly estimate detection limit of point sources

exclude the src reg list via histogram above

create suzaku point source regions based on this (run locally)