

# Developing exploration behavior

Trajectory over time of the molly at camera: 23520289 and position: BACK  
From the 10th of September to the 8th of November.

Research Unit 1, SCIoI Project 21

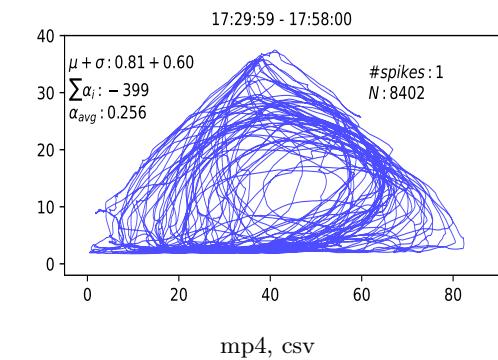
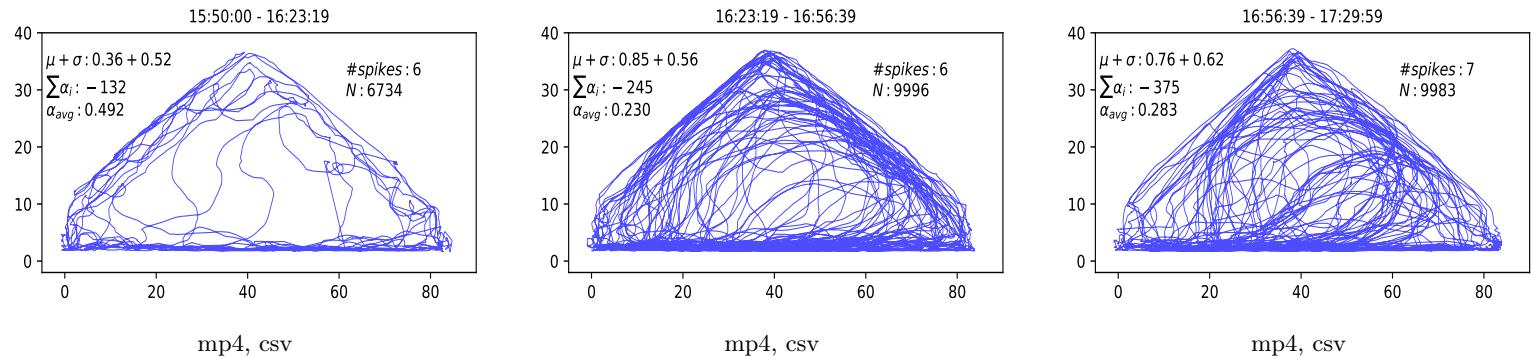
December 2021

## Legend

- $\mu + \sigma$  illustrates the mean  $\mu$  of step length per frame and its standard derivation  $\sigma$  for a batch.
- $\sum_{\alpha_i}$  is the sum of angles  $\alpha$  taken anti-clockwise and where each  $\alpha_i \in [-\pi, \pi]$ .
- $\alpha_{avg}$  is the average turning angle for each batch in radians.
- $\#spikes$  the number of steps per frame that exceed the limit of the overall  $\mu$  and  $\sigma$  by the following formula  $\mu + 3 \cdot \sigma = 0.2274 + 3 \cdot 1.004 = 3.4246$ .
- $N$  number of valid data point for a batch. A batch of trajectory data points for a time of 30 min contains originally 9999 data points.

Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_day0/23520289/20210910\_155042.23520289\_back\_front/  
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2021/09/10 at 15:50  
 Trajectory over time of the molly at  
 camera: 23520289 position: BACK

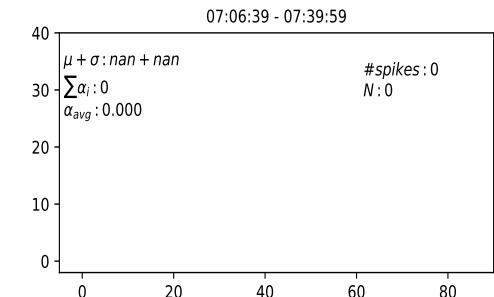
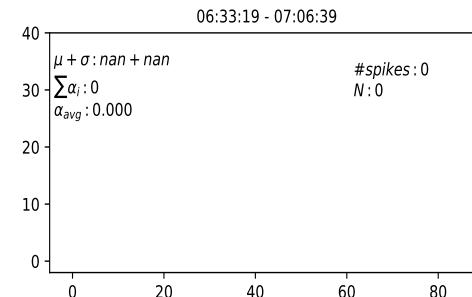
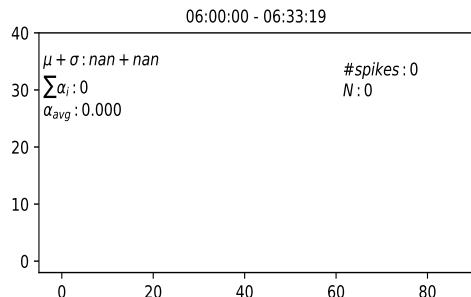


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CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210911\_060000.23520289/

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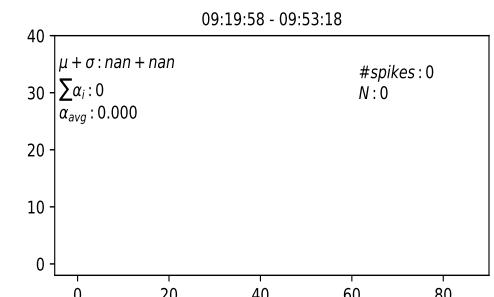
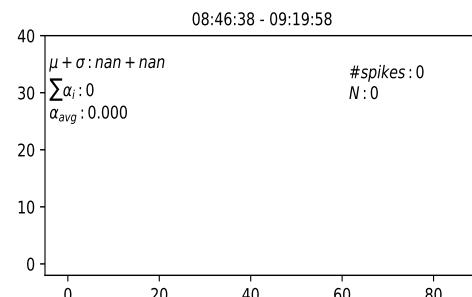
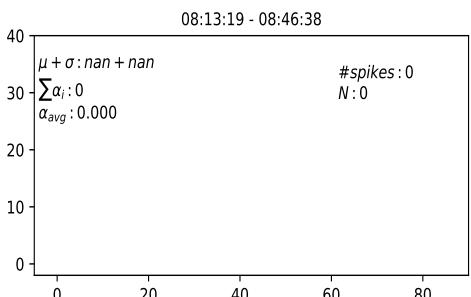
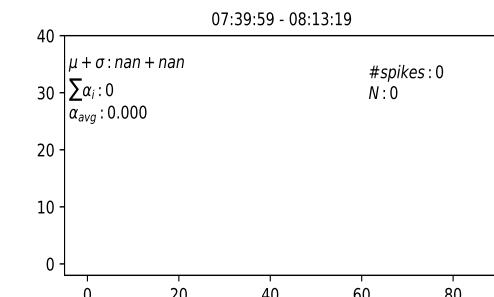
Trajectory over time of the molly at  
camera: 23520289 position: BACK



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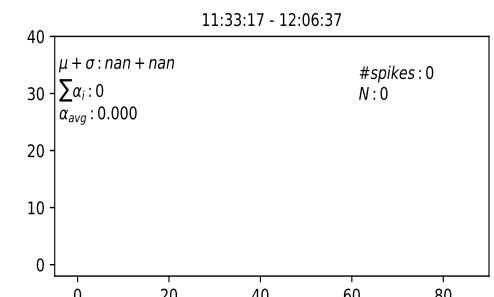
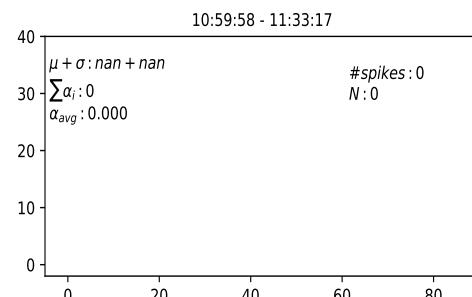
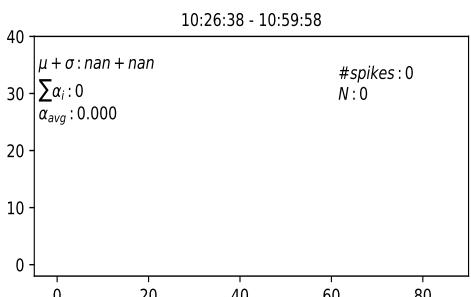
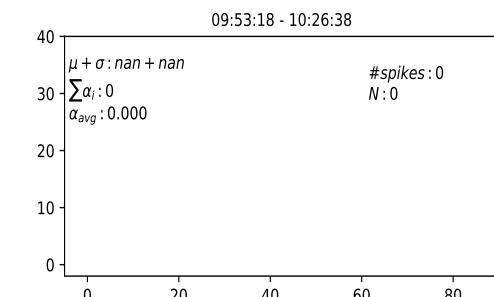


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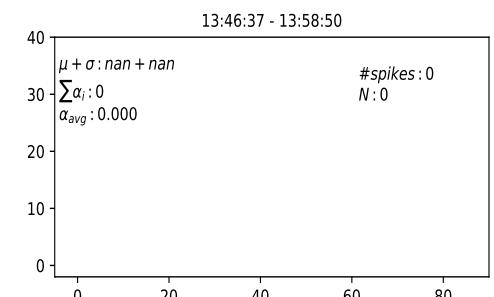
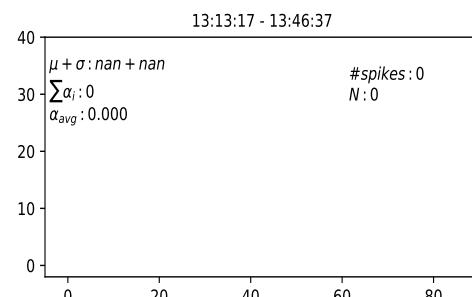
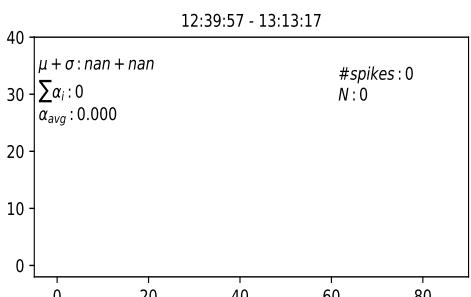
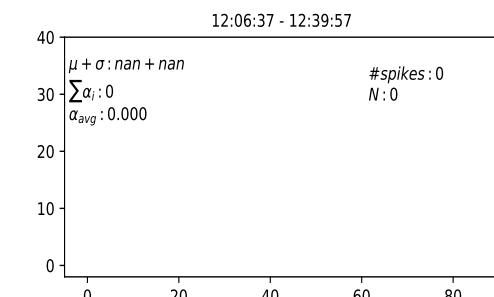


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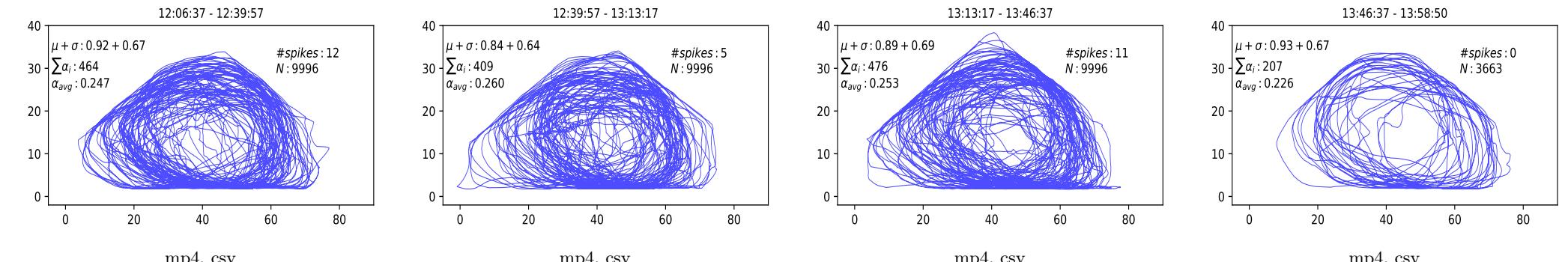
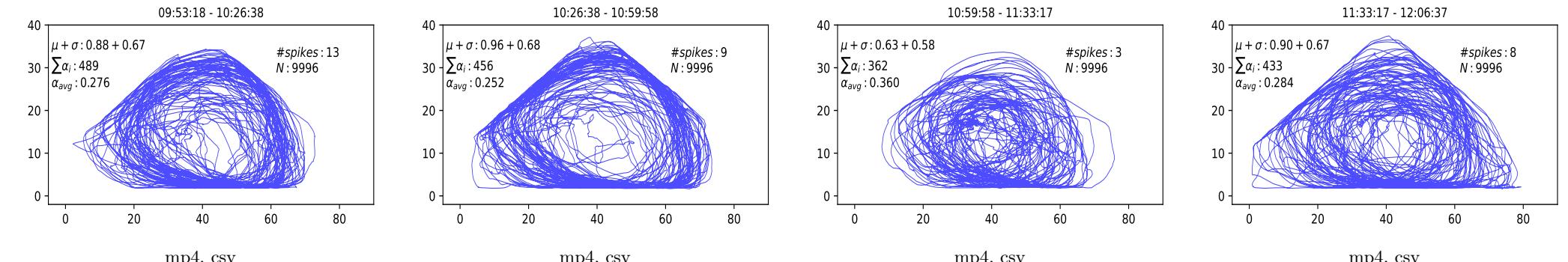
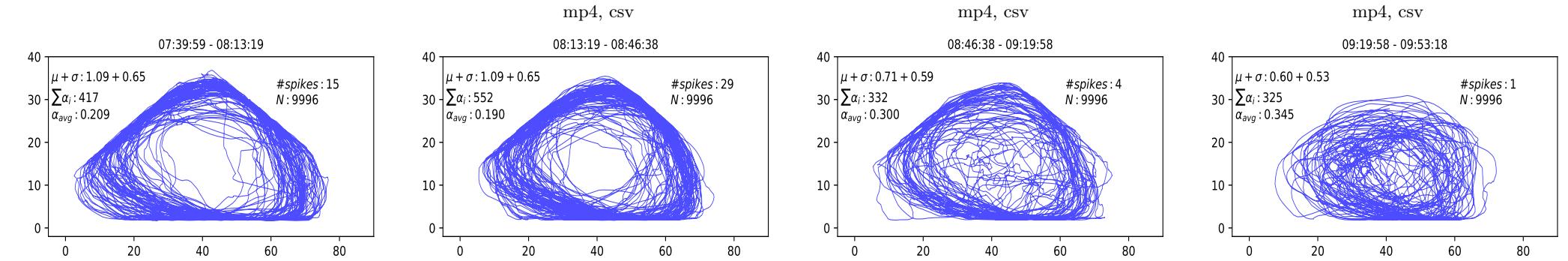
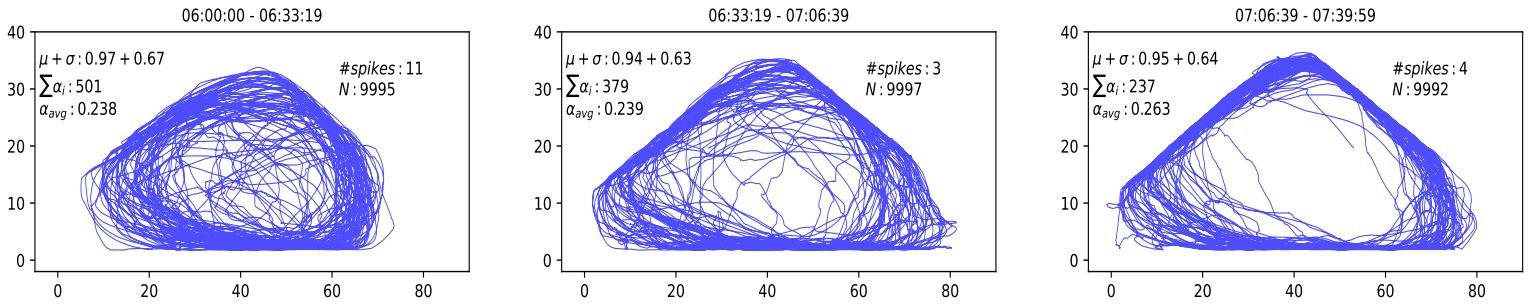
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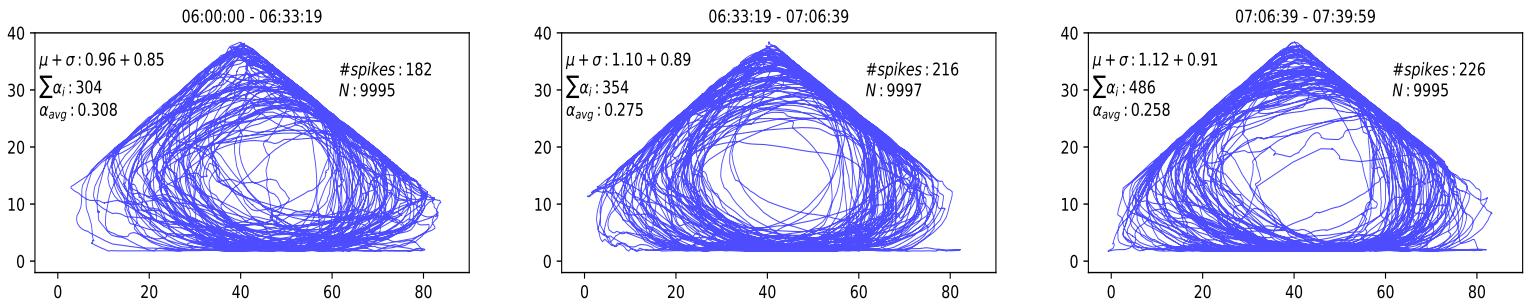
Trajectory over time of the molly at  
camera: 23520289 position: BACK



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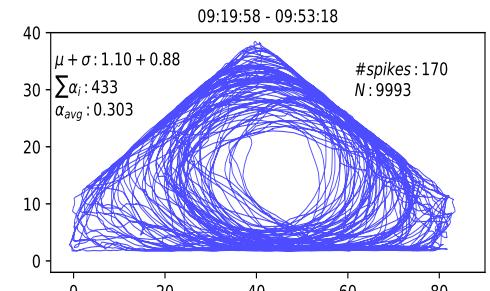
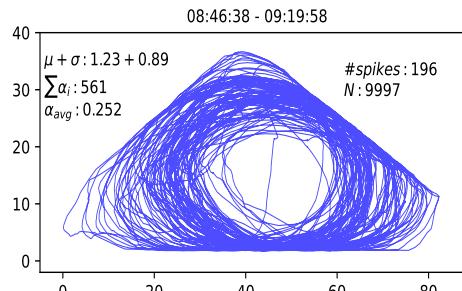
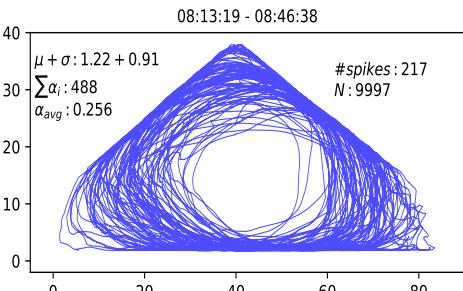
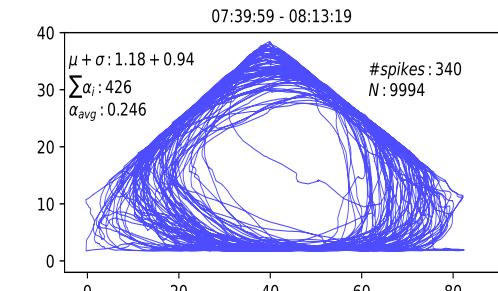
Trajectory over time of the molly at  
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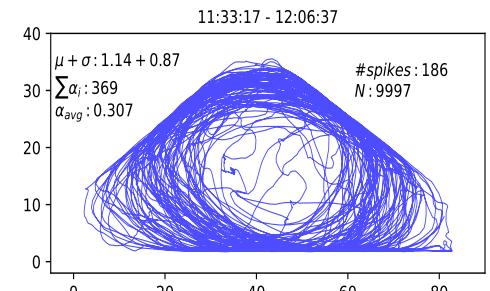
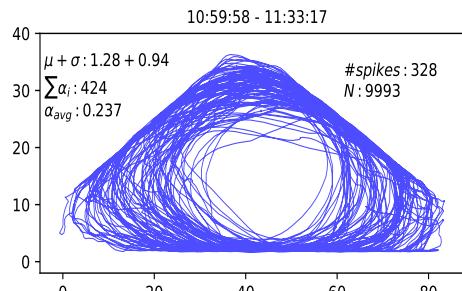
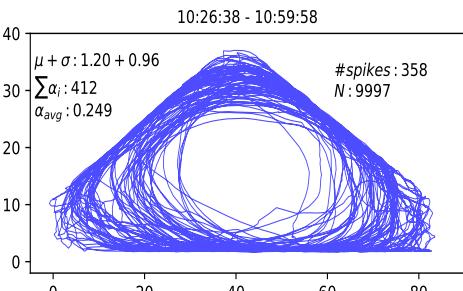
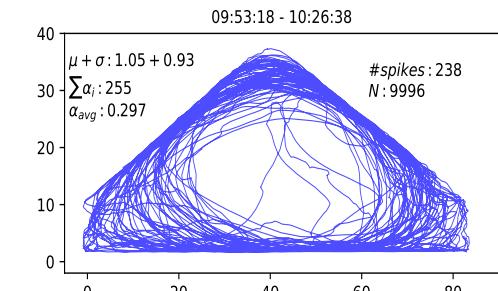


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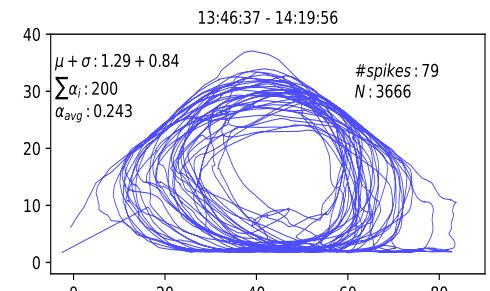
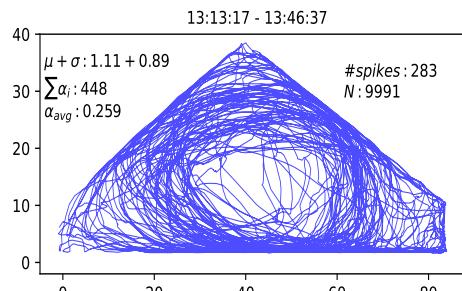
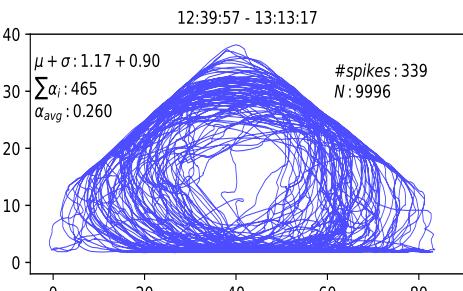
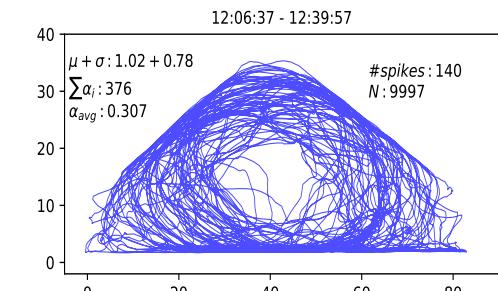


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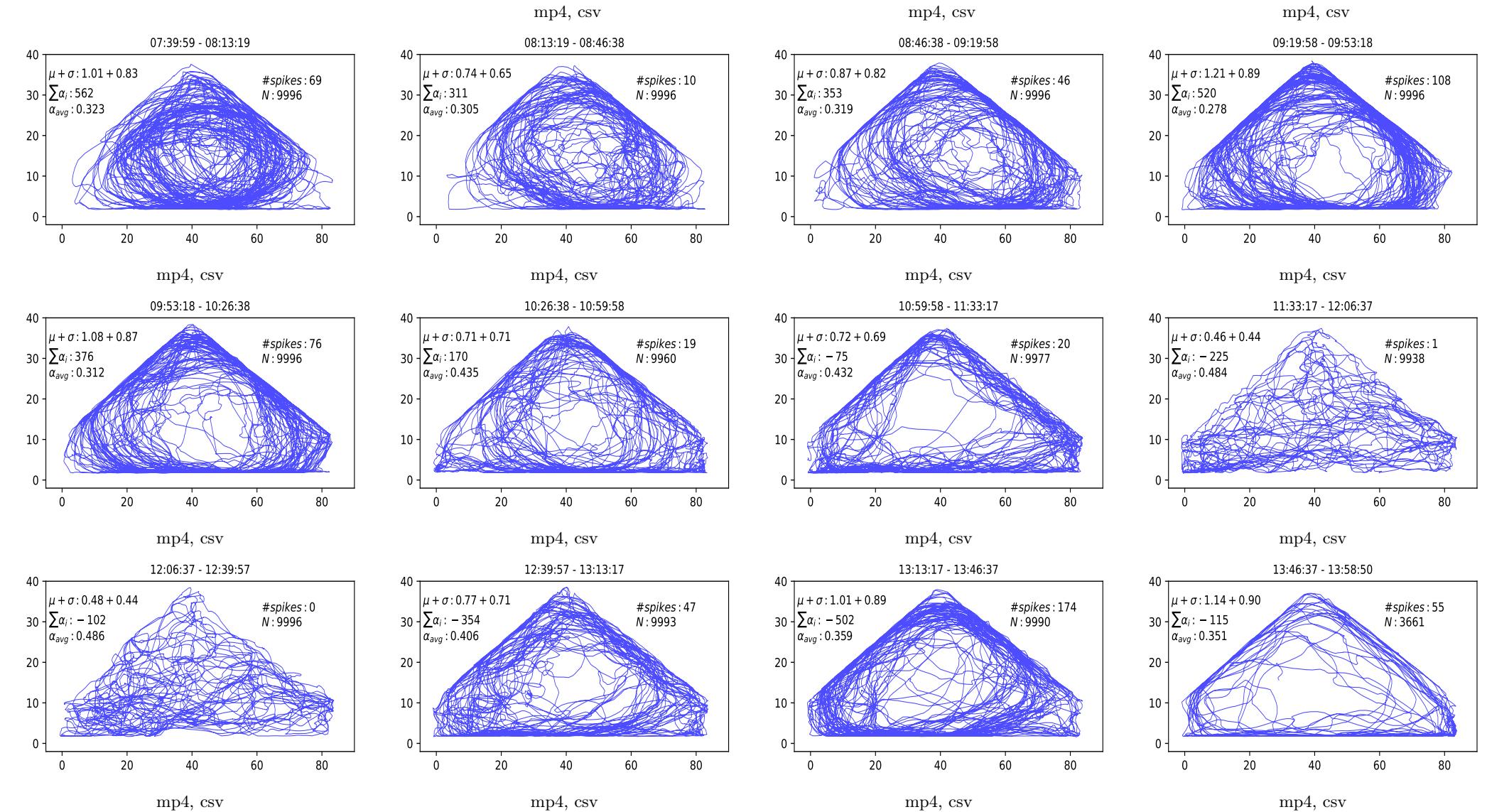
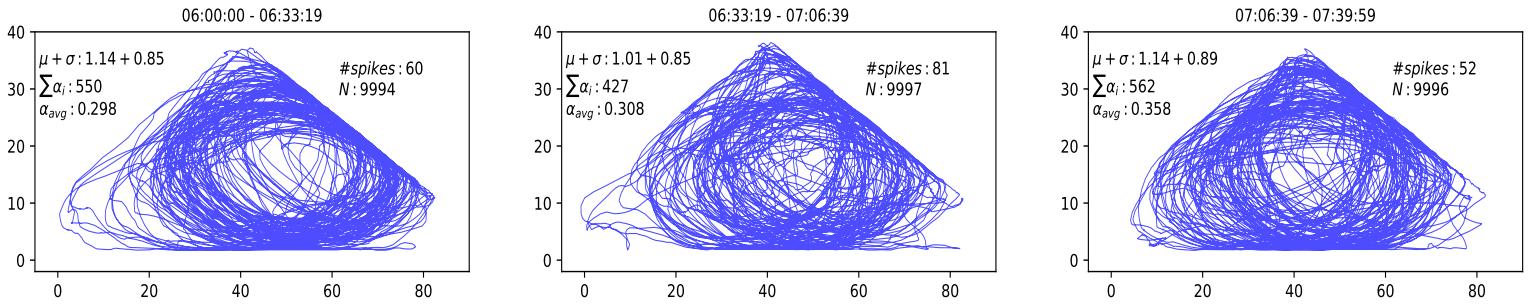
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2021/09/14 at 06:00

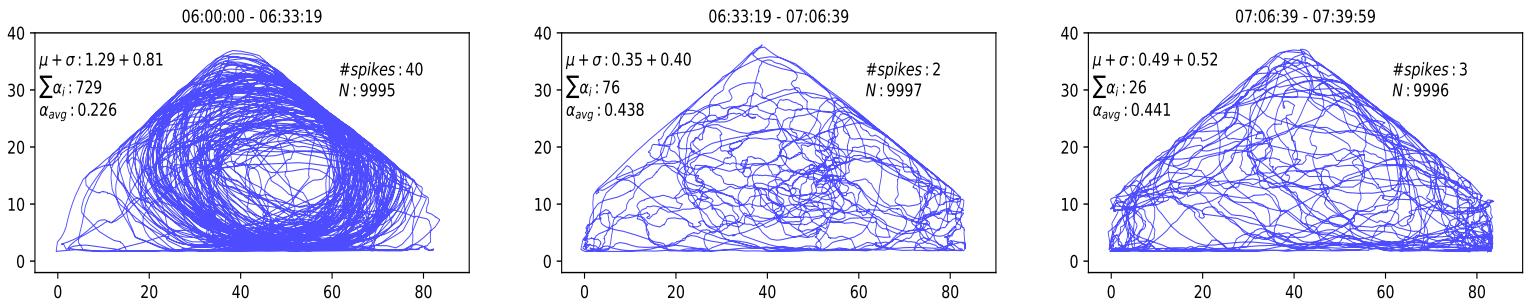
Trajectory over time of the molly at  
camera: 23520289 position: BACK



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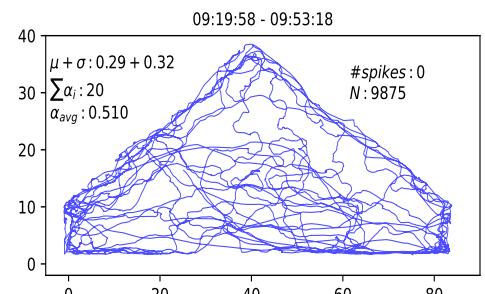
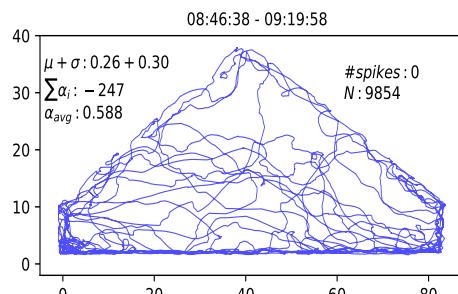
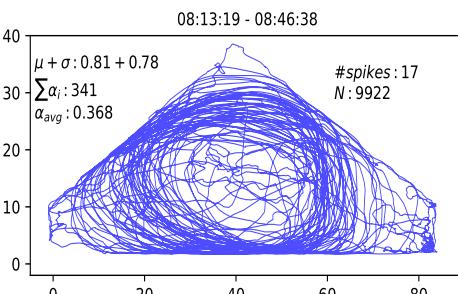
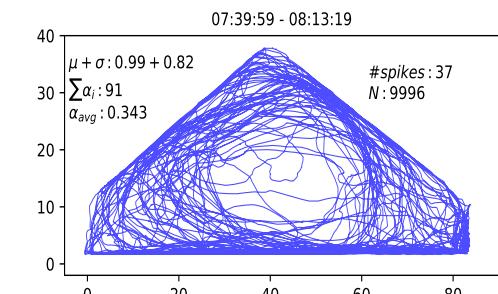
Trajectory over time of the molly at  
camera: 23520289 position: BACK



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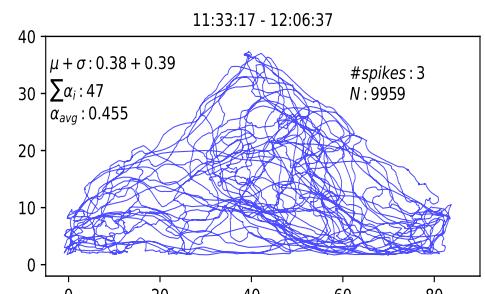
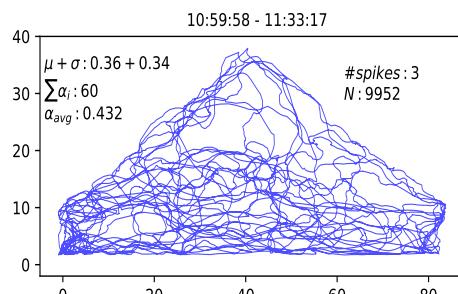
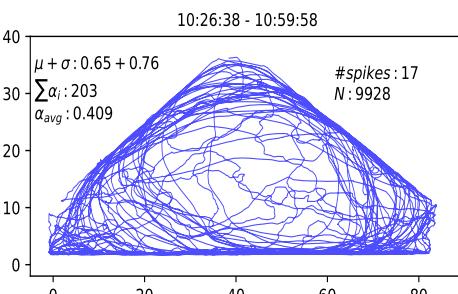
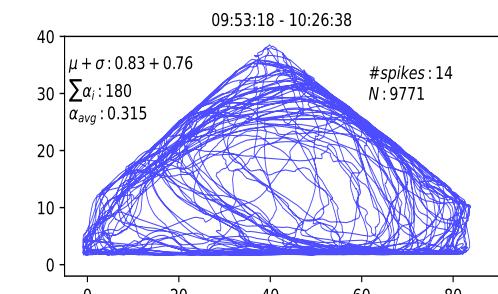


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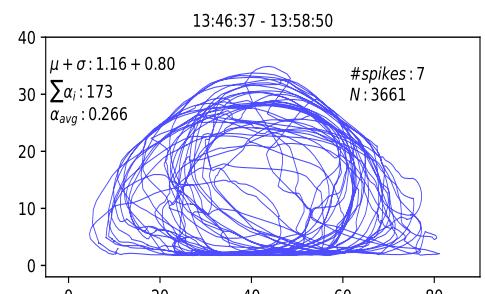
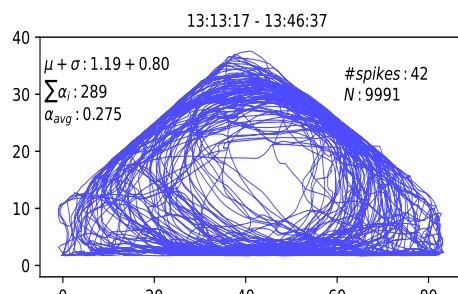
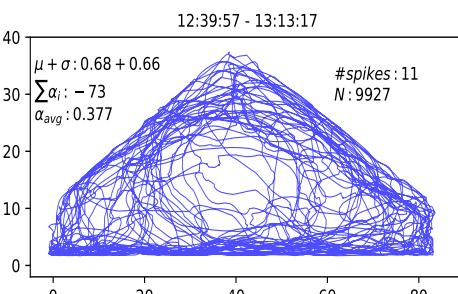
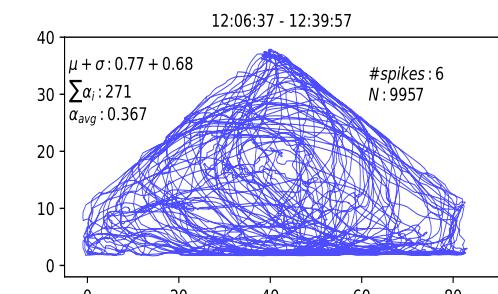


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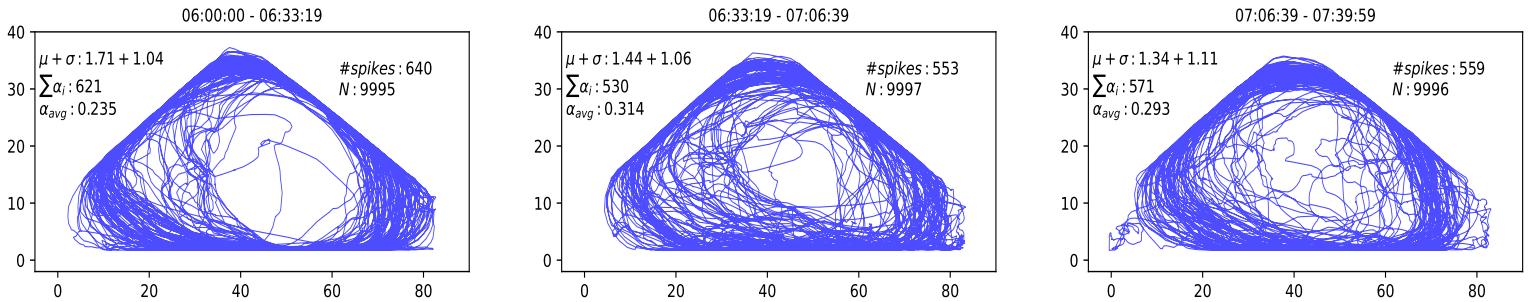
mp4, csv

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2021/09/16 at 06:00

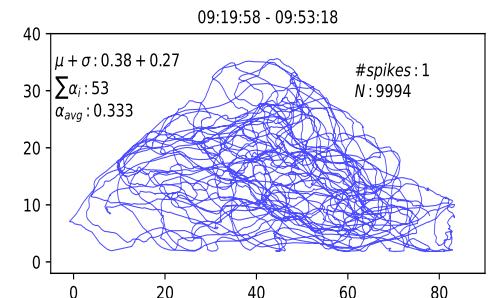
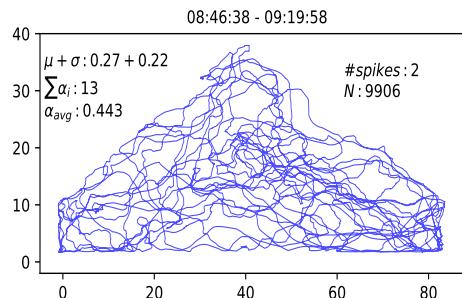
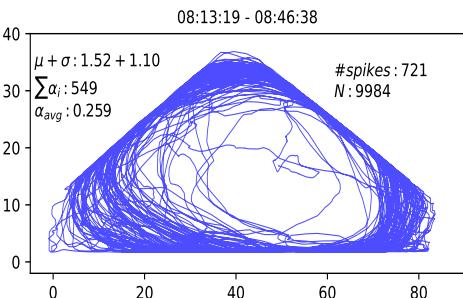
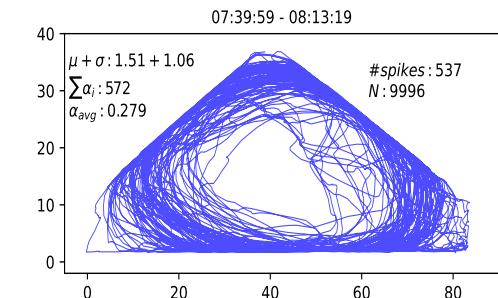
Trajectory over time of the molly at  
camera: 23520289 position: BACK



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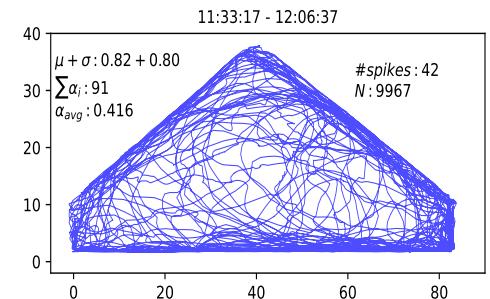
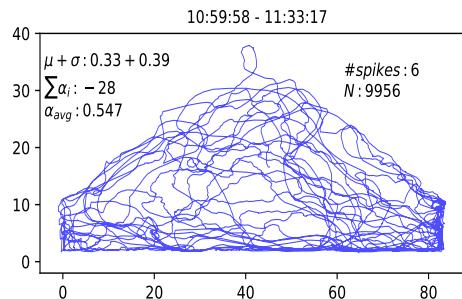
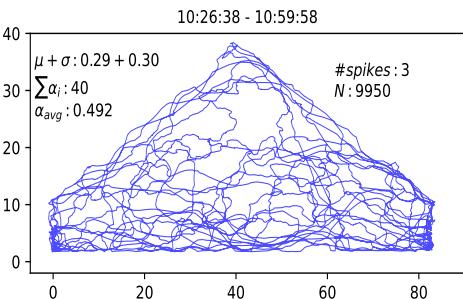
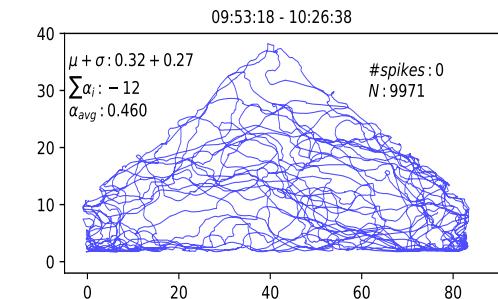


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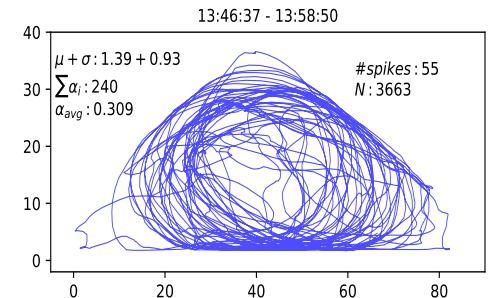
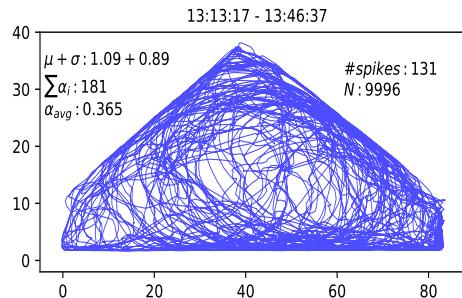
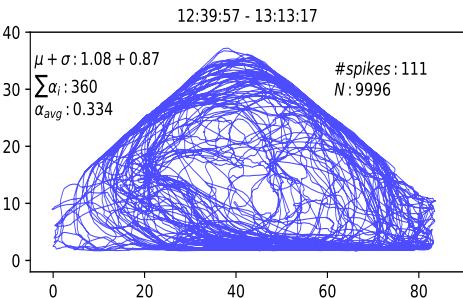
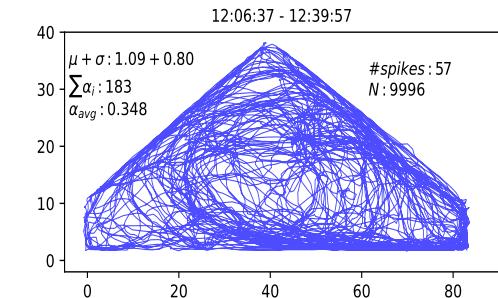


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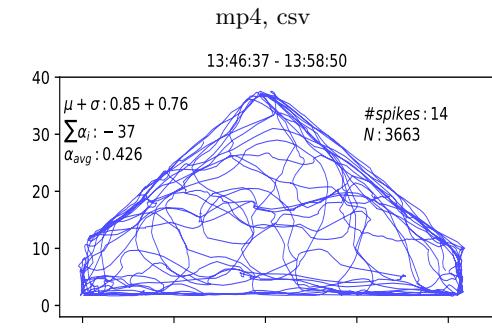
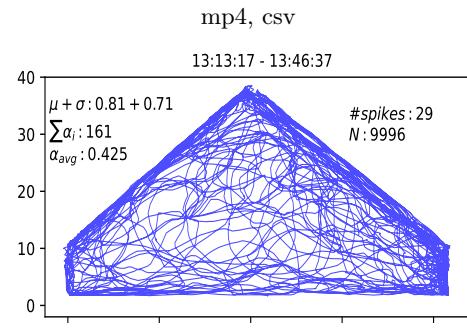
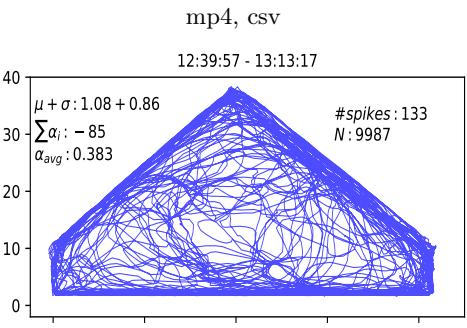
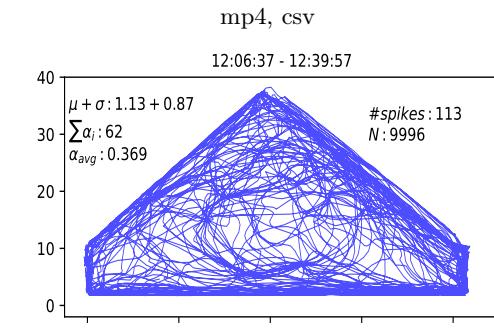
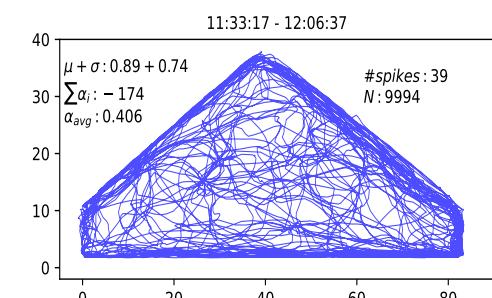
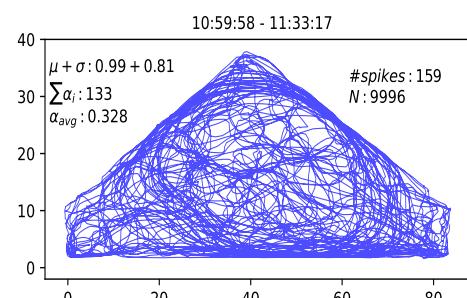
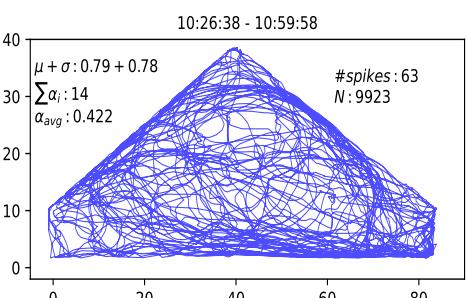
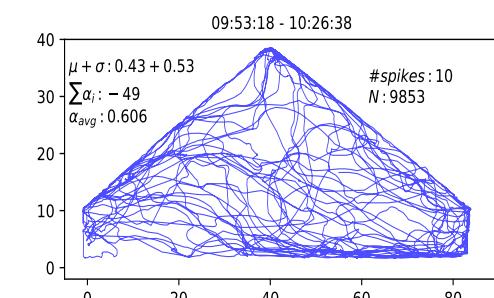
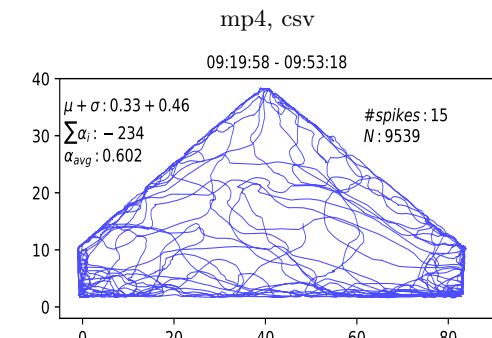
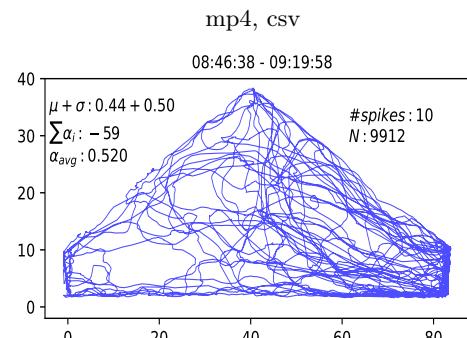
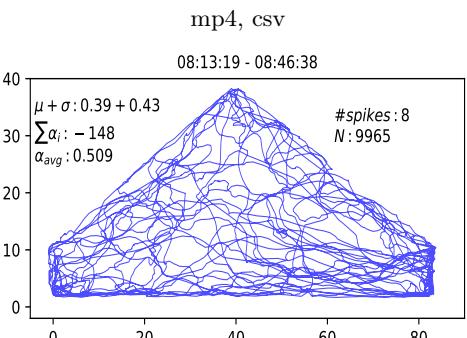
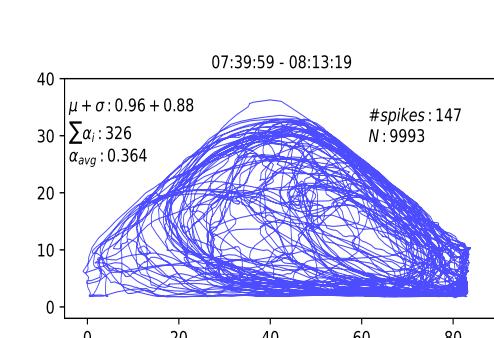
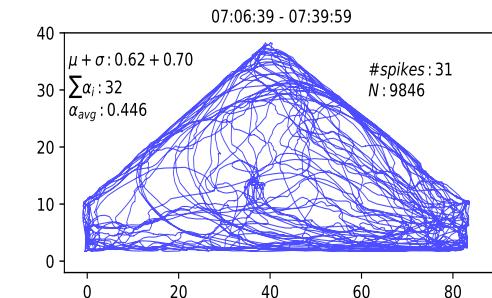
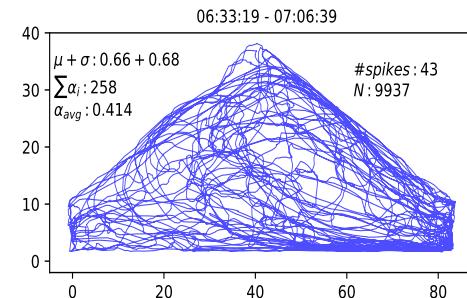
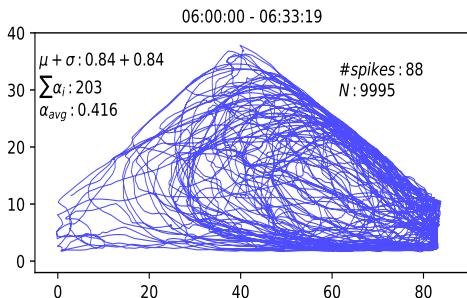
mp4, csv

Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week1/23520289/20210917\_060000.23520289\_back\_front/

CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210917\_060000.23520289/

2021/09/17 at 06:00

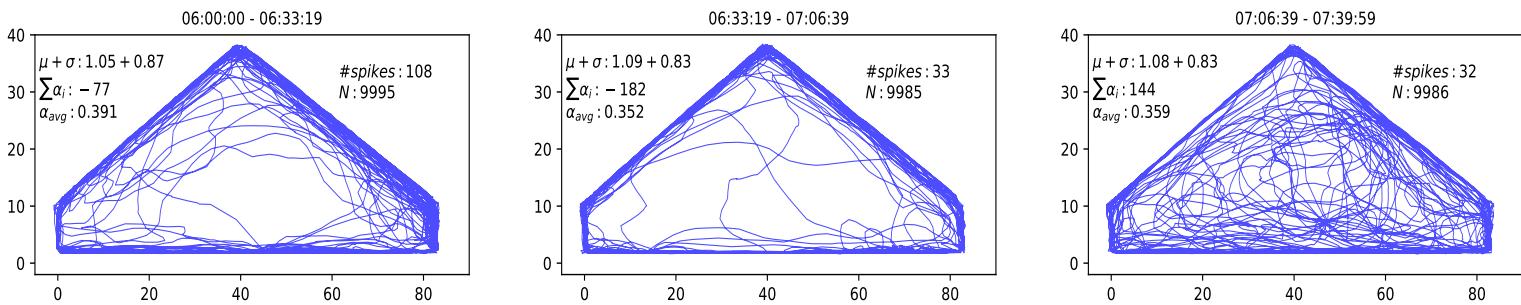
Trajectory over time of the molly at  
camera: 23520289 position: BACK



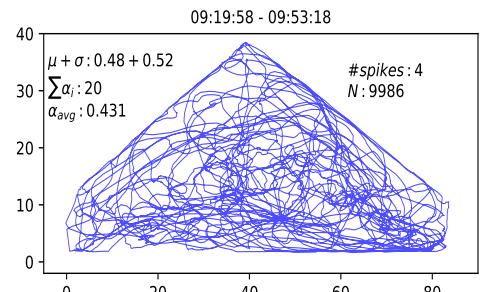
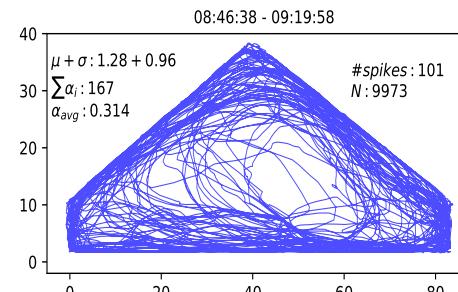
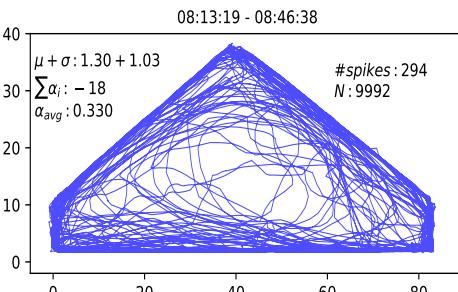
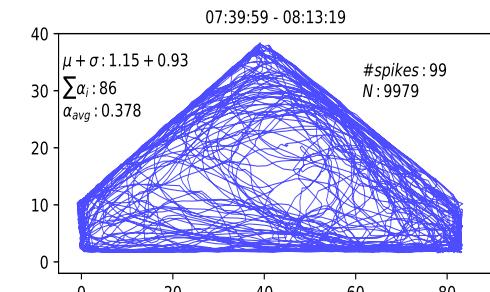
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2021/09/18 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

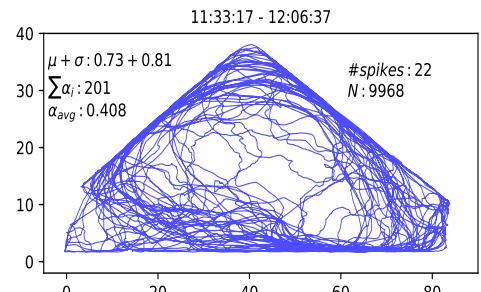
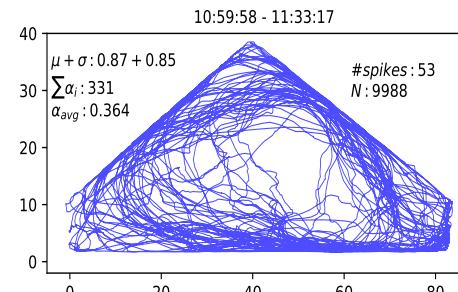
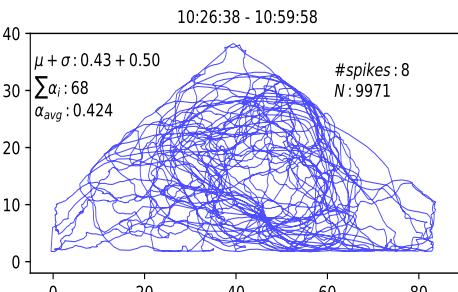
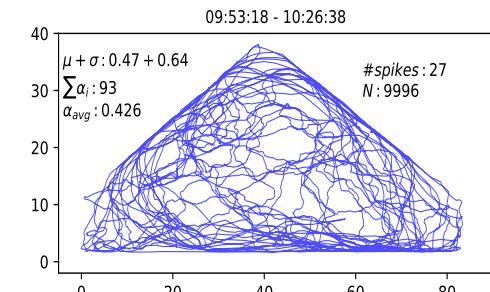


mp4, csv

mp4, csv

mp4, csv

mp4, csv

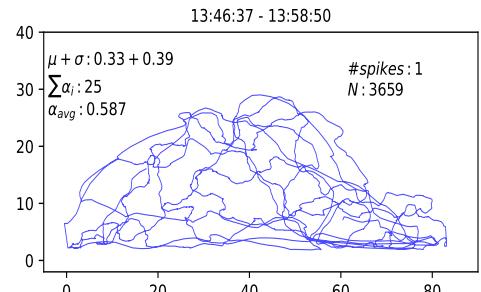
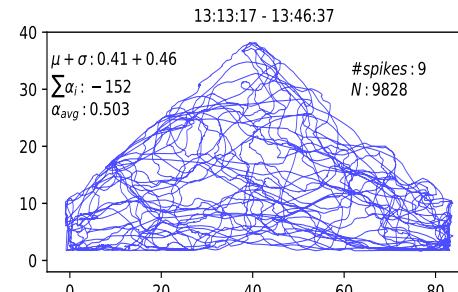
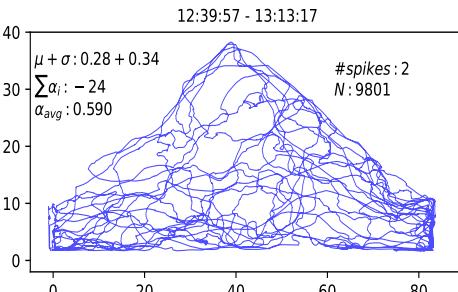
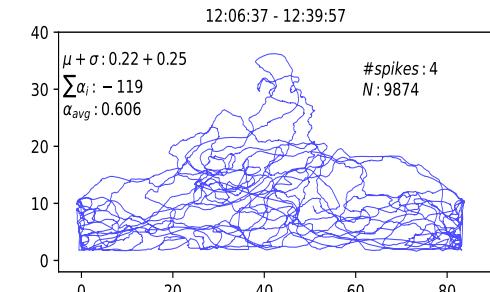


mp4, csv

mp4, csv

mp4, csv

mp4, csv



mp4, csv

mp4, csv

mp4, csv

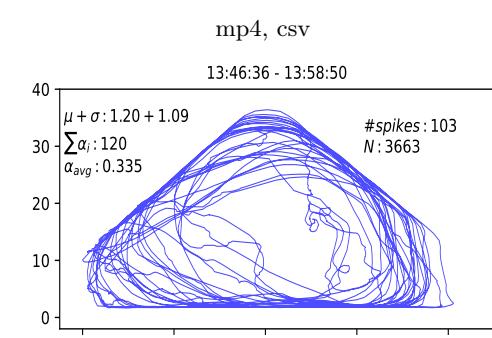
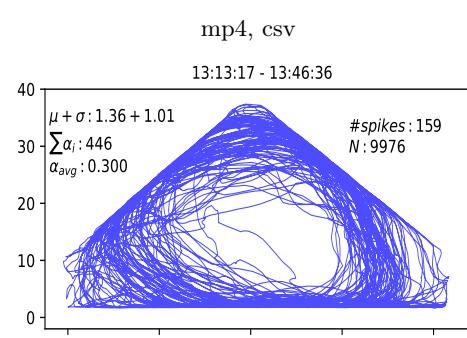
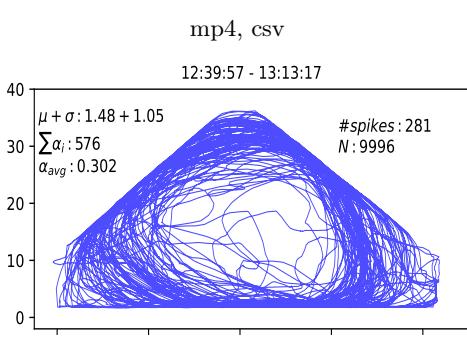
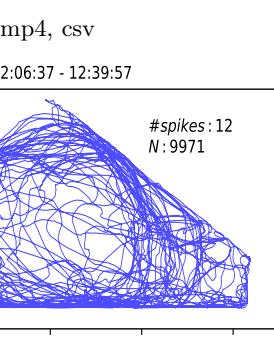
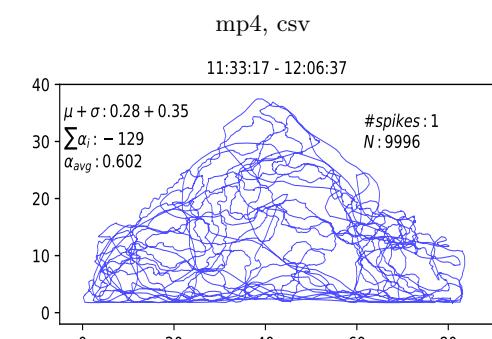
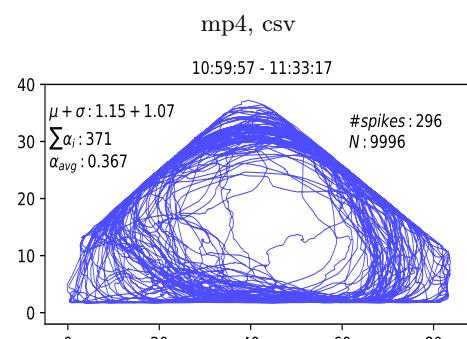
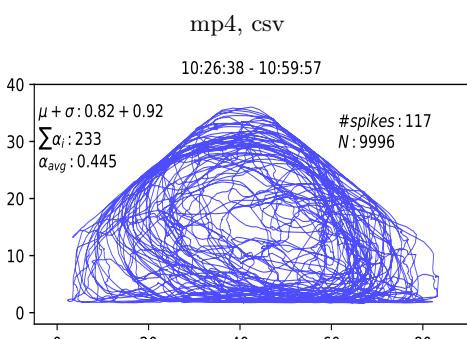
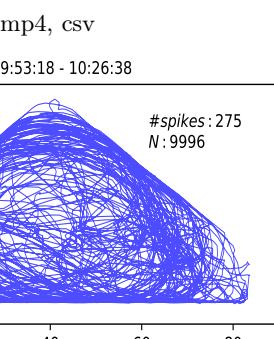
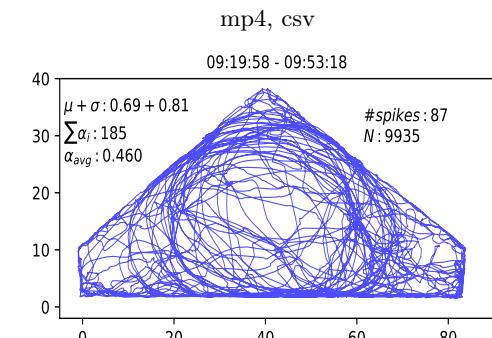
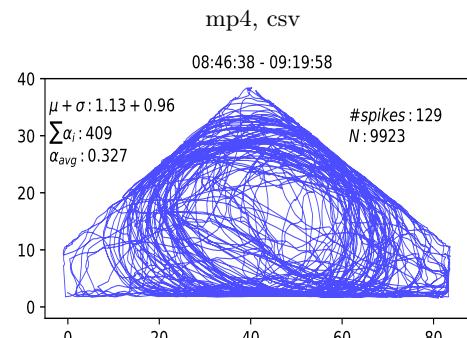
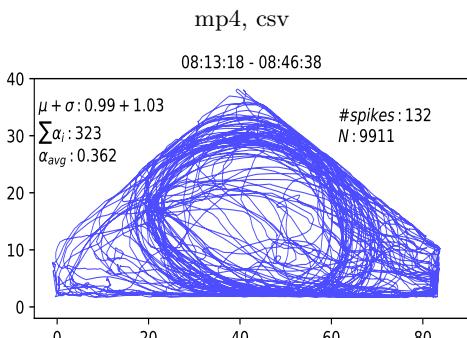
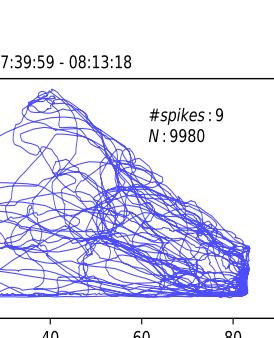
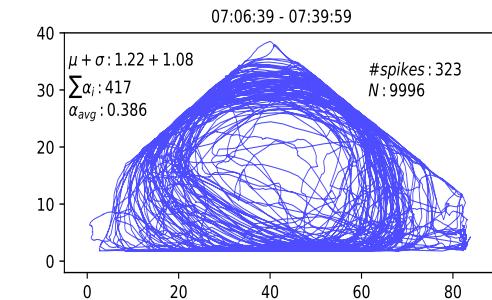
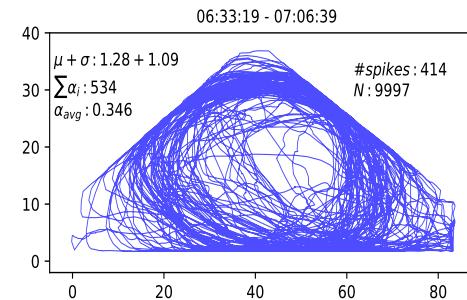
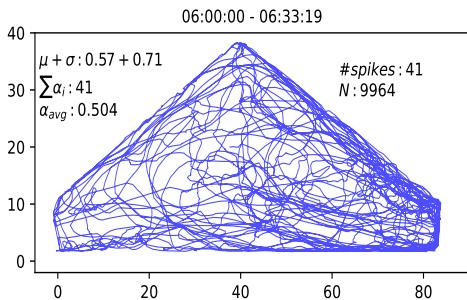
mp4, csv

Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week2/23520289/20210919\_060000.23520289\_back\_front/

CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210919\_060000.23520289/

2021/09/19 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

mp4, csv

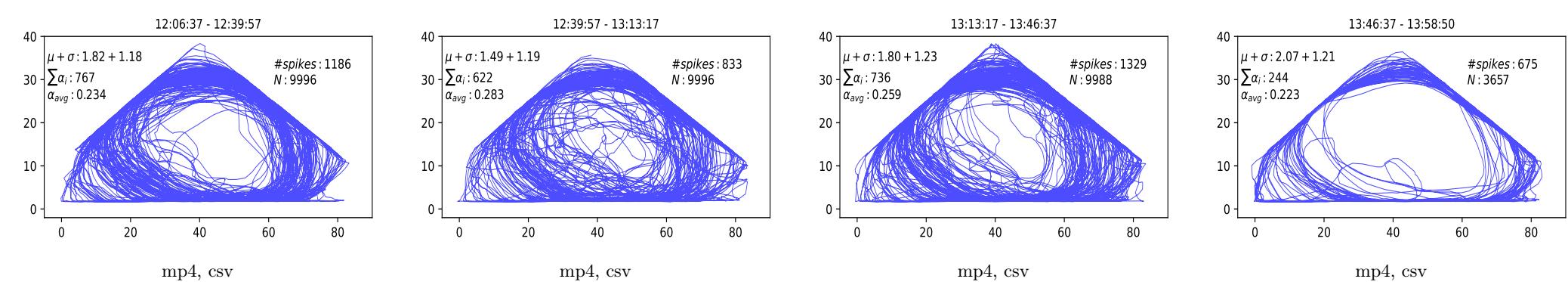
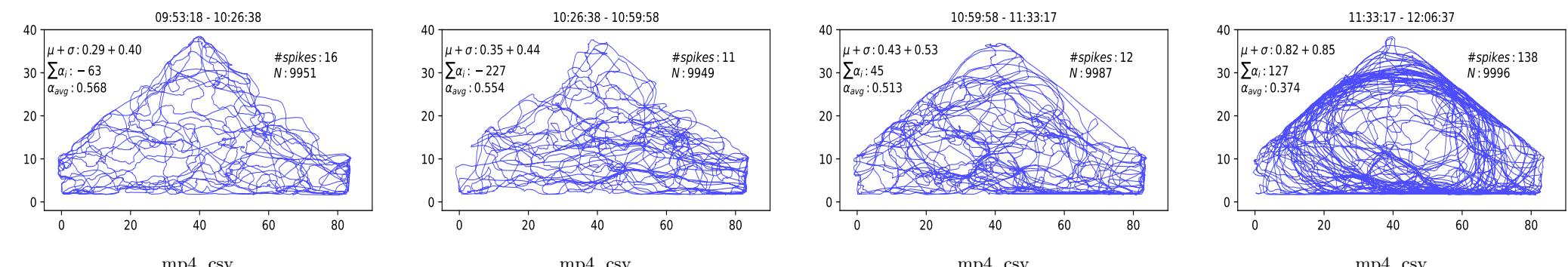
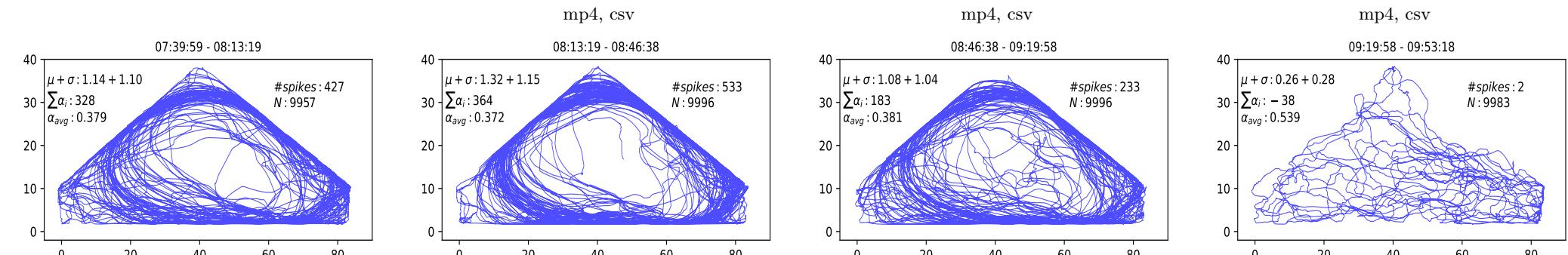
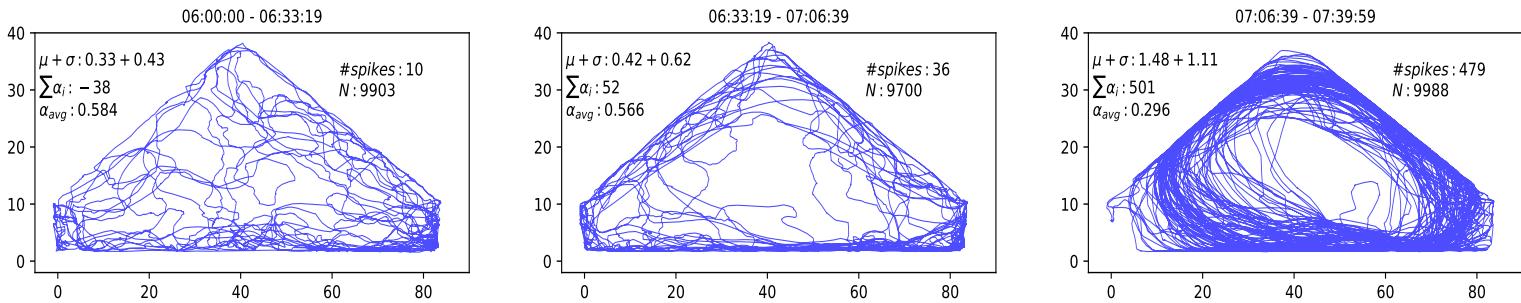
mp4, csv

mp4, csv

Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week2/23520289/20210920\_060000.23520289\_back\_front/  
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2021/09/20 at 06:00

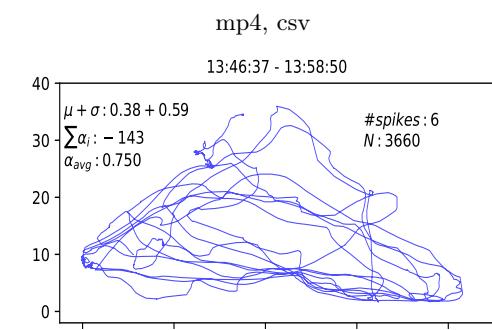
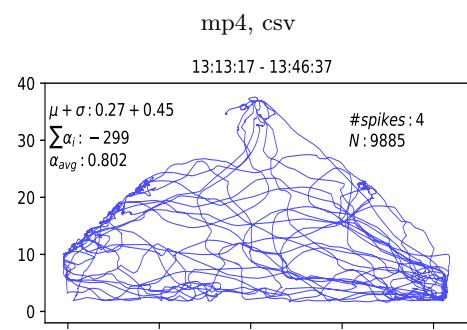
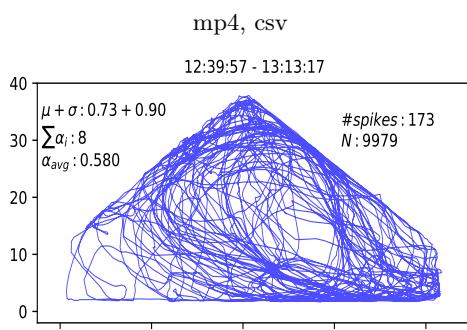
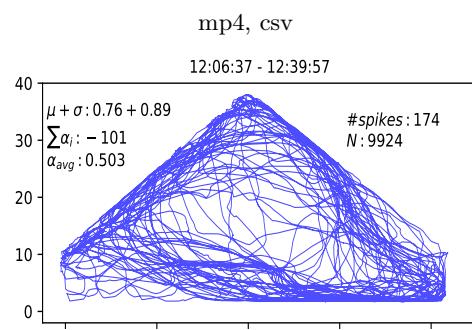
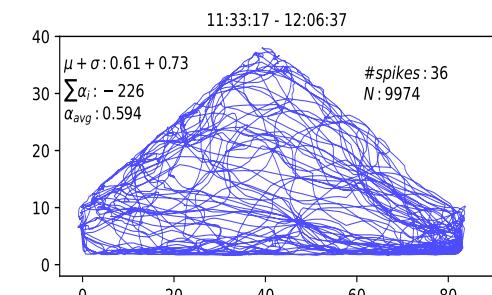
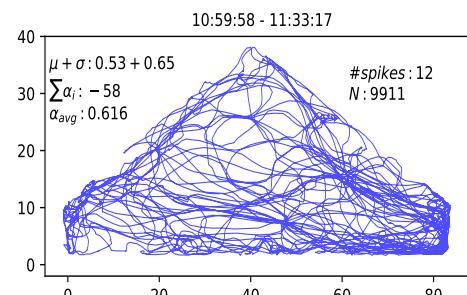
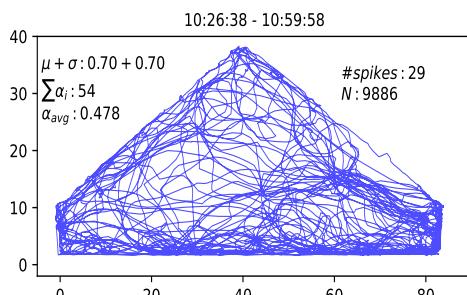
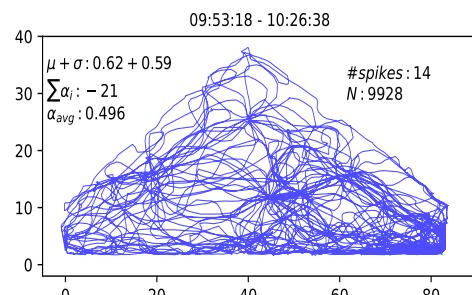
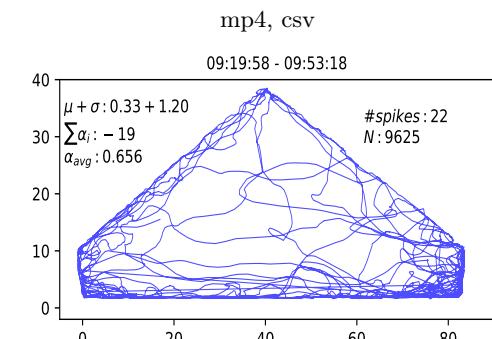
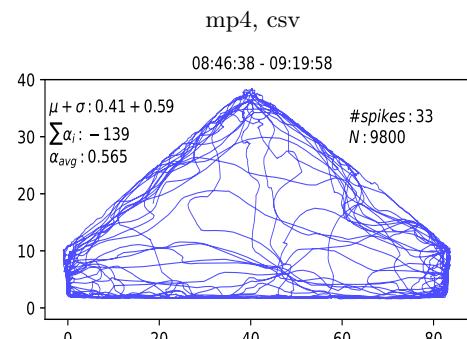
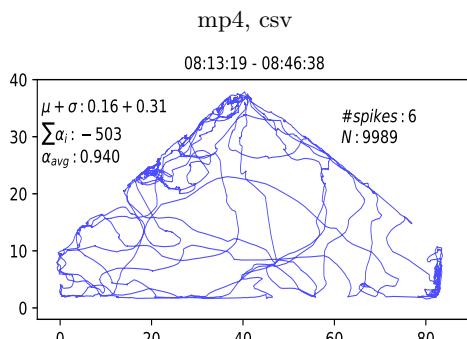
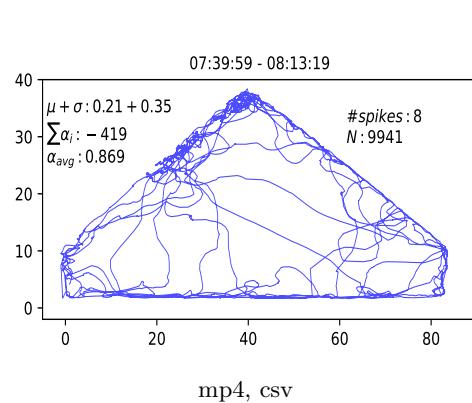
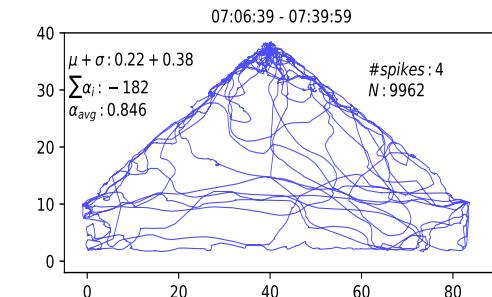
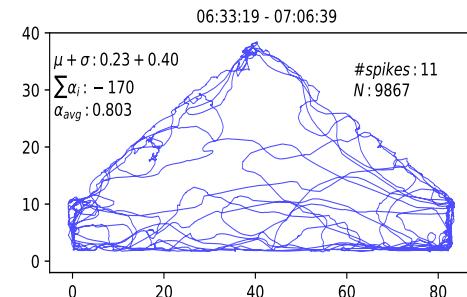
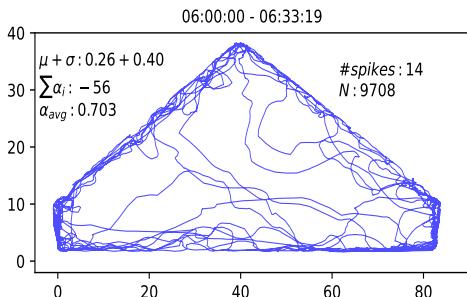
Trajectory over time of the molly at  
camera: 23520289 position: BACK



Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week2/23520289/20210921\_060000.23520289\_back\_front/  
CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210921\_060000.23520289

2021/09/21 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

mp4, csv

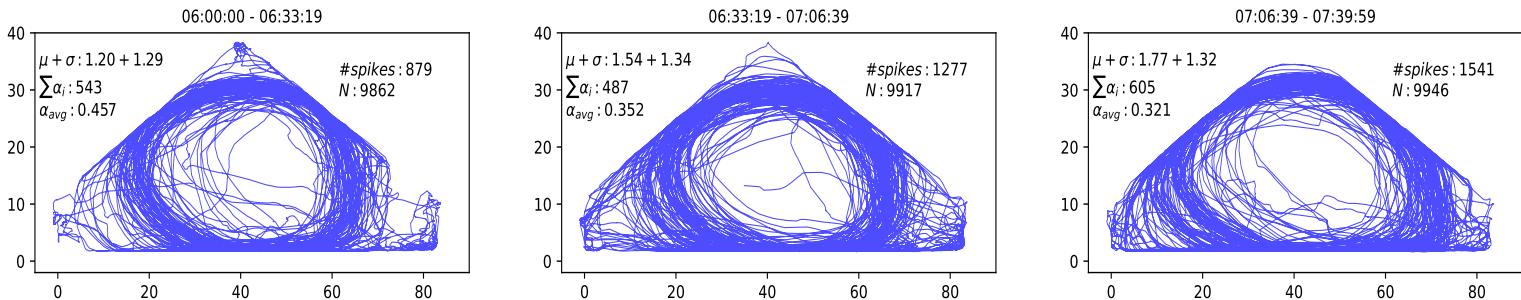
mp4, csv

mp4, csv

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CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210922\_060000.23520289

2021/09/22 at 06:00

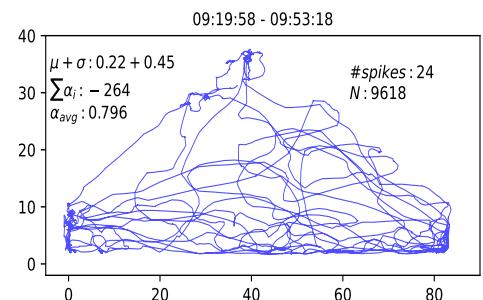
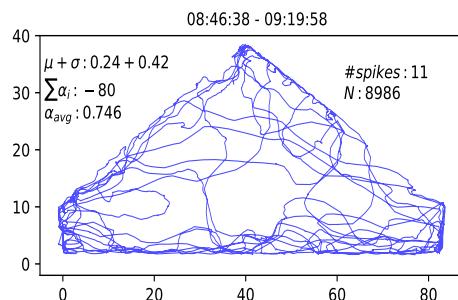
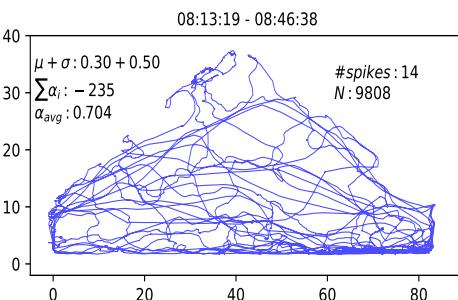
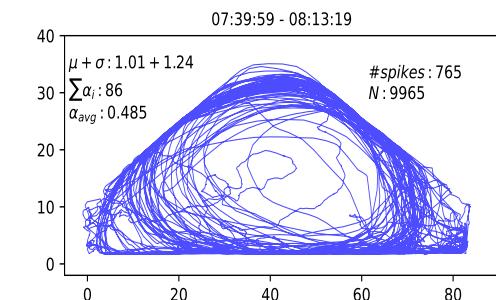
Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

mp4, csv

mp4, csv

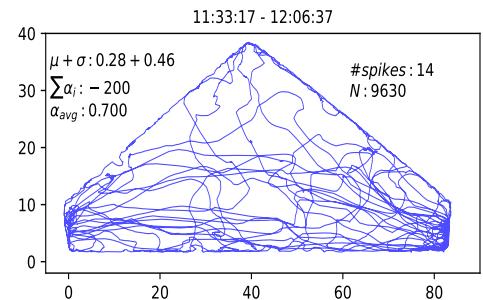
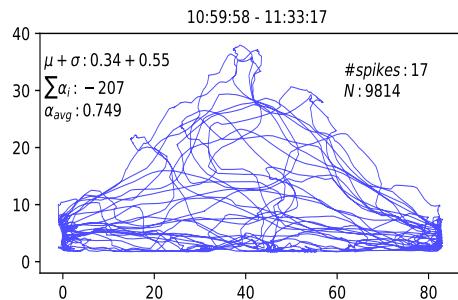
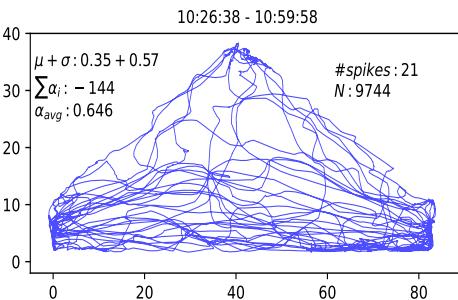
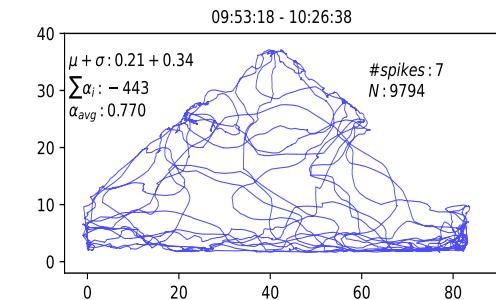


mp4, csv

mp4, csv

mp4, csv

mp4, csv

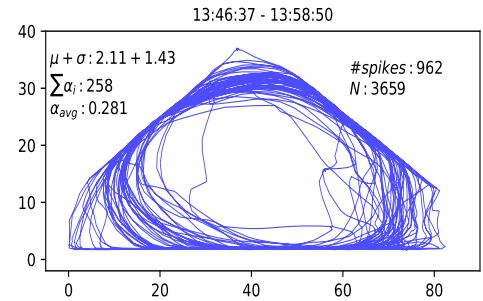
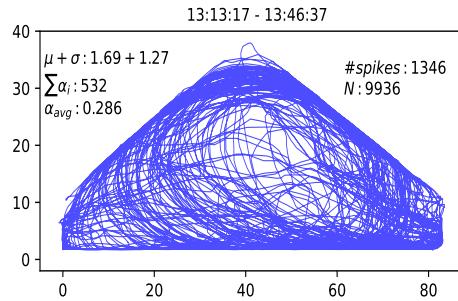
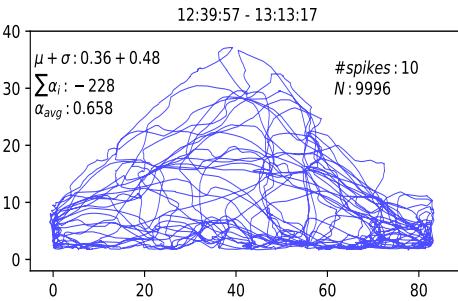
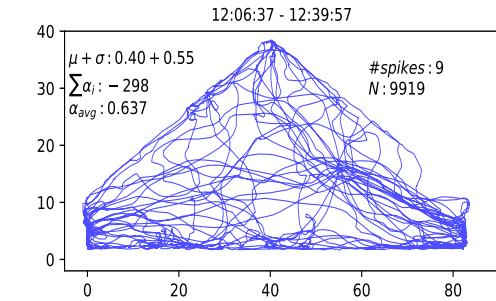


mp4, csv

mp4, csv

mp4, csv

mp4, csv



mp4, csv

mp4, csv

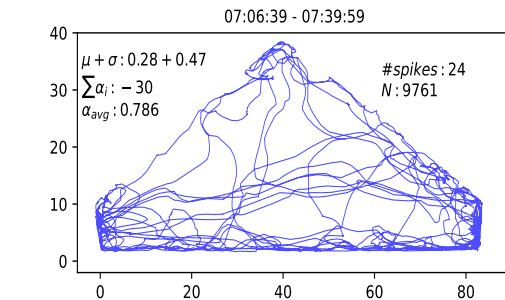
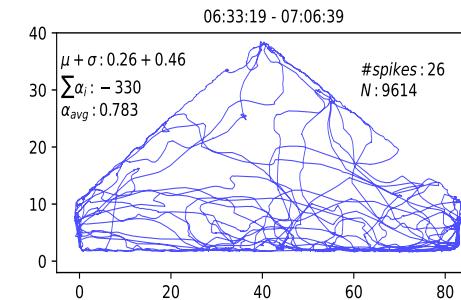
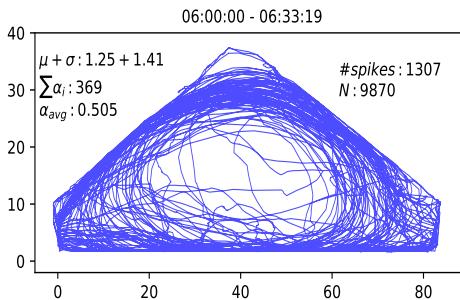
mp4, csv

mp4, csv

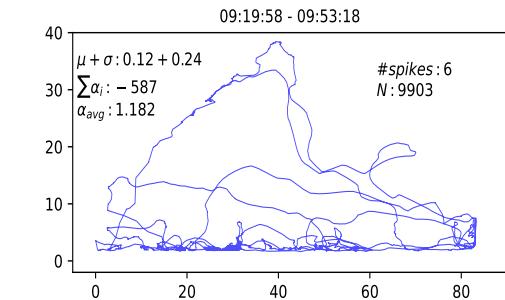
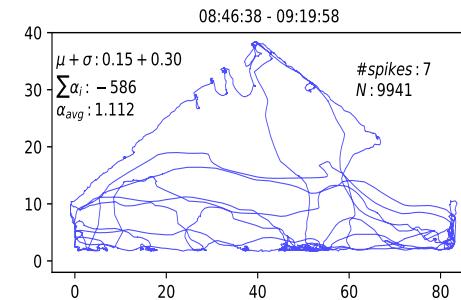
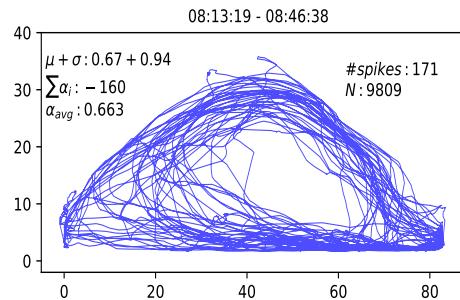
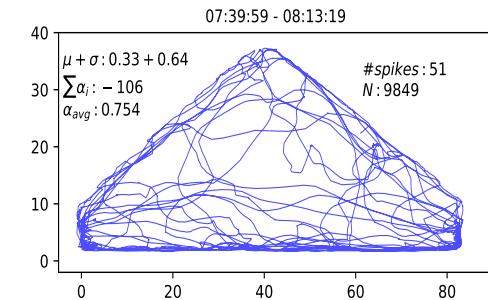
Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week2/23520289/20210923\_060000.23520289\_back\_front/  
CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210923\_060000.23520289/

2021/09/23 at 06:00

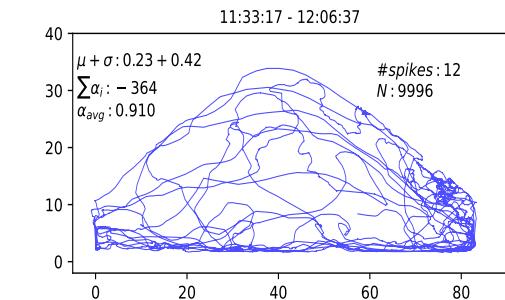
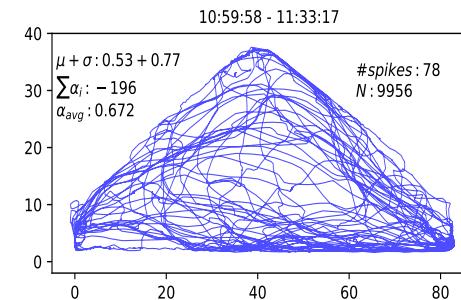
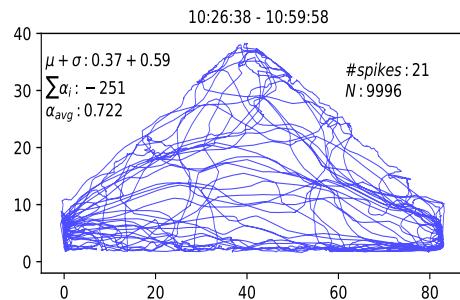
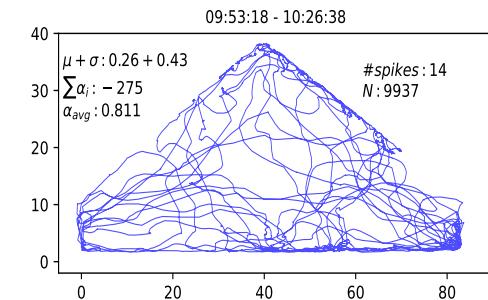
Trajectory over time of the molly at  
camera: 23520289 position: BACK



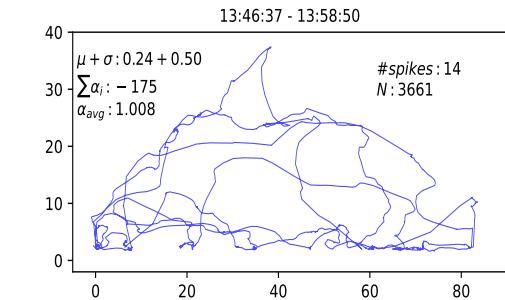
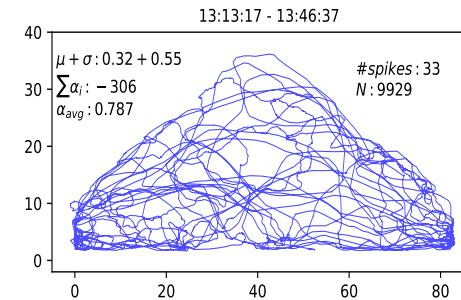
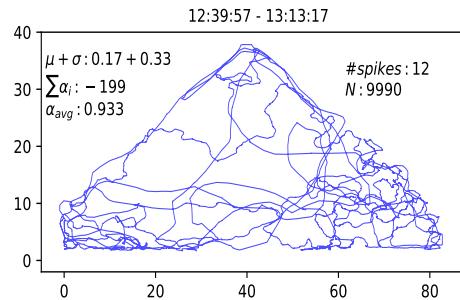
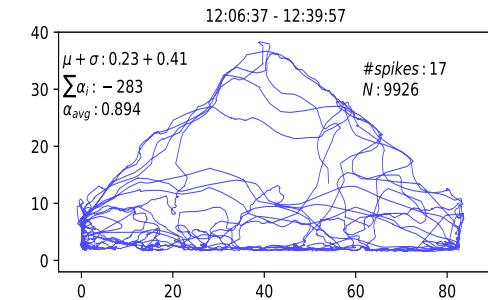
mp4, csv



mp4, csv



mp4, csv



mp4, csv

mp4, csv

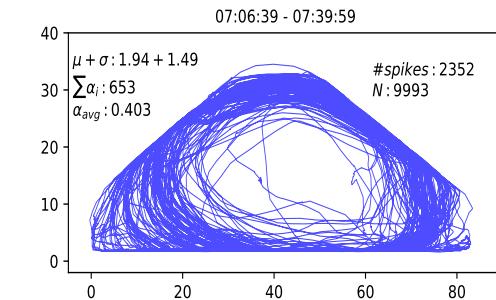
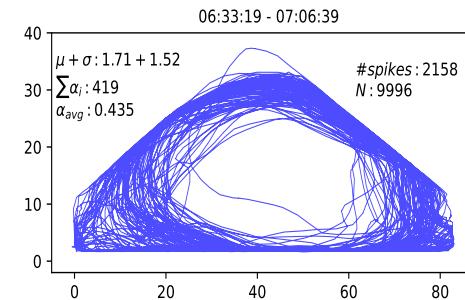
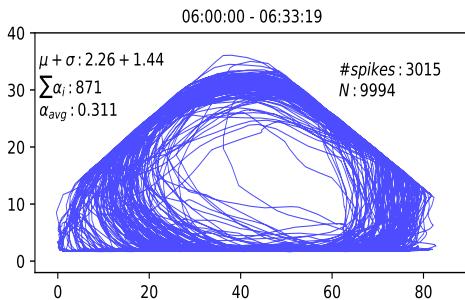
mp4, csv

mp4, csv

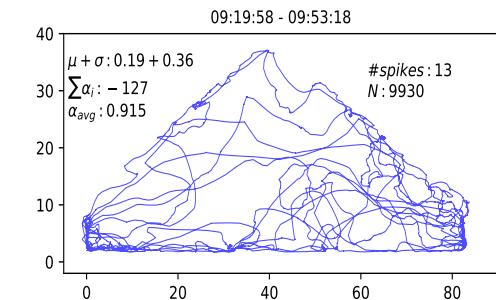
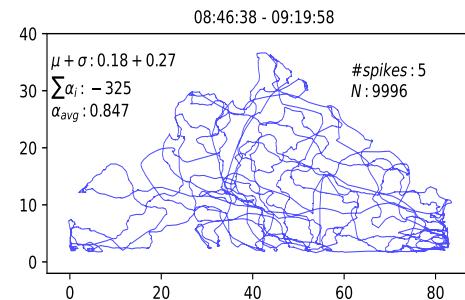
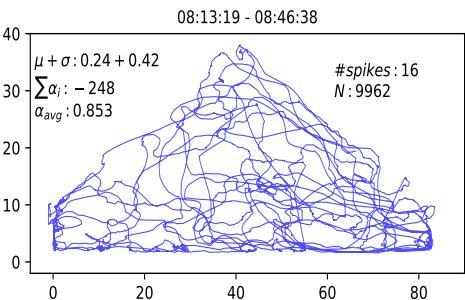
Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week2/23520289/20210924\_060000.23520289\_back\_front/  
CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210924\_060000.23520289/

2021/09/24 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



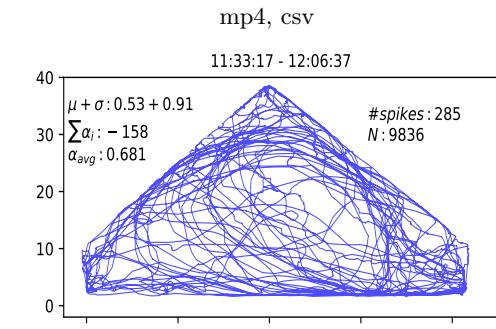
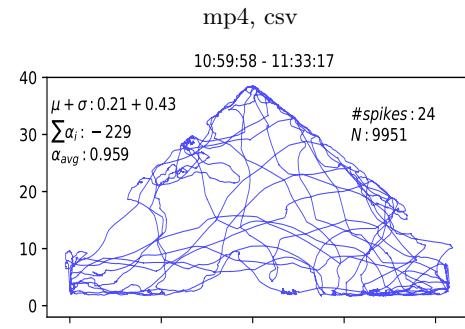
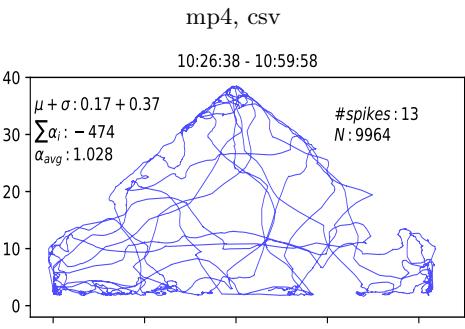
mp4, csv



mp4, csv

09:19:58 - 09:53:18

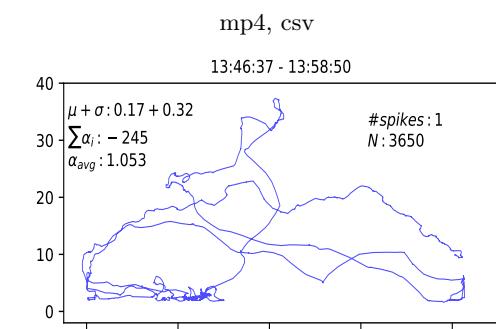
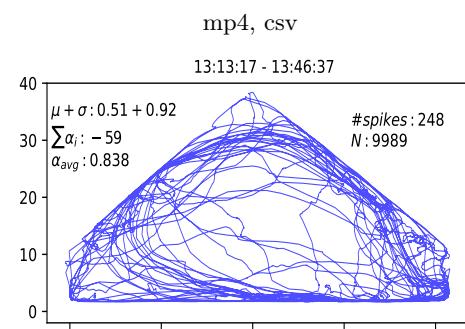
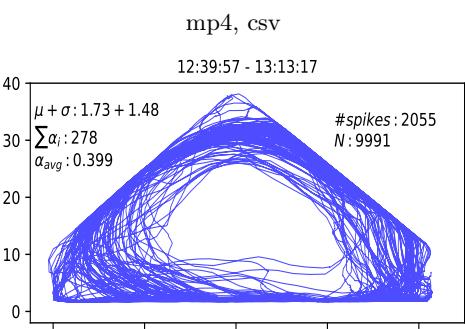
mp4, csv



mp4, csv

11:33:17 - 12:06:37

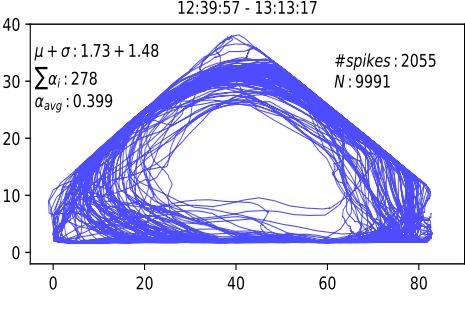
mp4, csv



mp4, csv

13:46:37 - 13:58:50

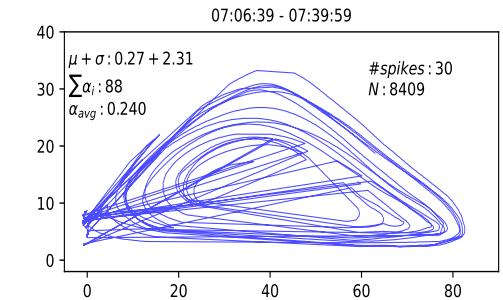
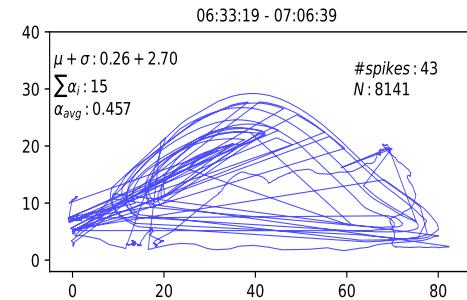
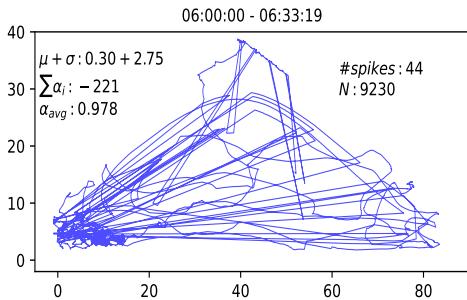
mp4, csv



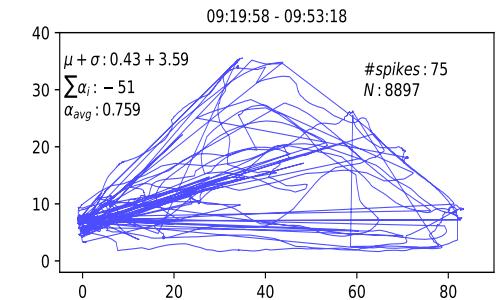
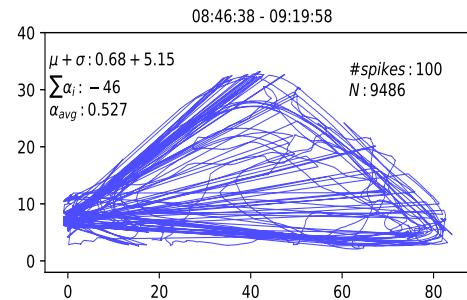
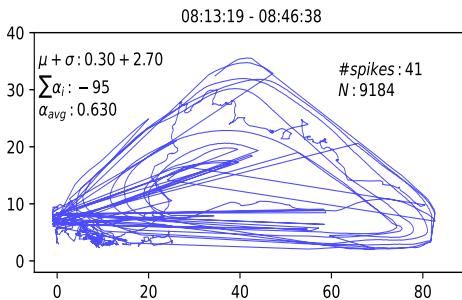
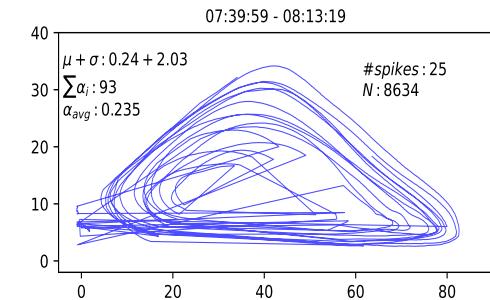
Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week3/23520289/20210925\_060000.23520289\_front\_back/  
CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210925\_060000.23520289/

2021/09/25 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK

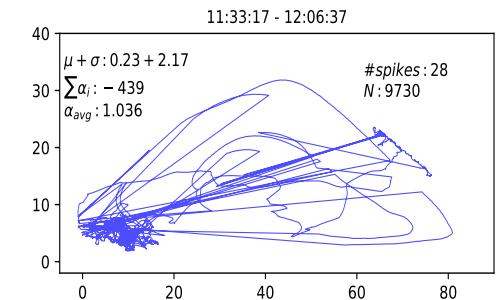
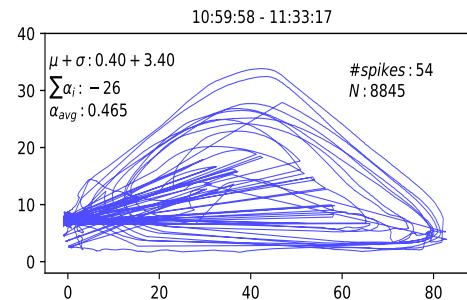
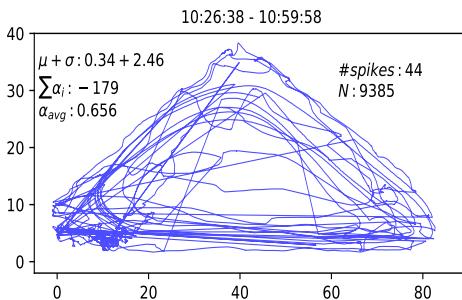
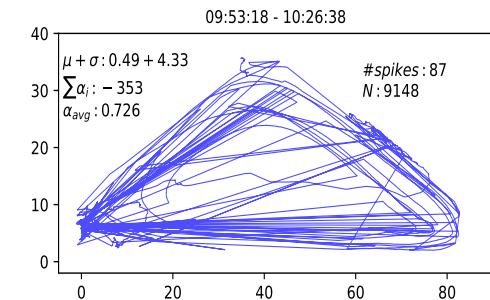


mp4, csv



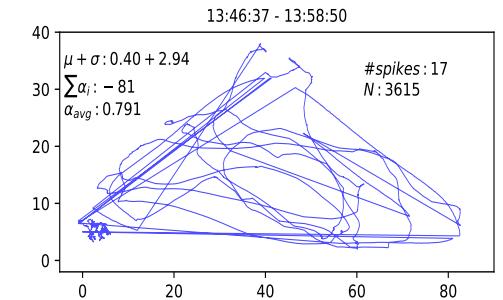
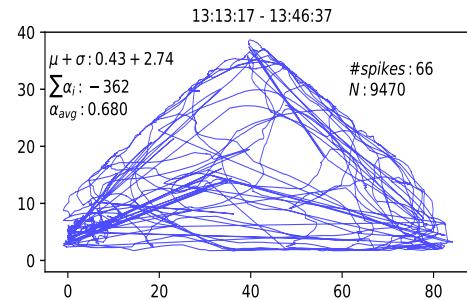
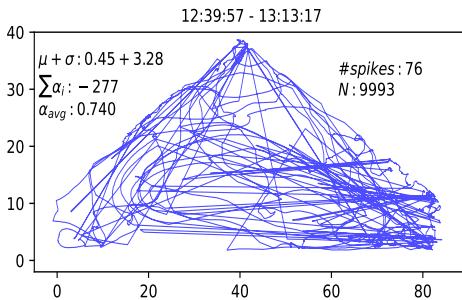
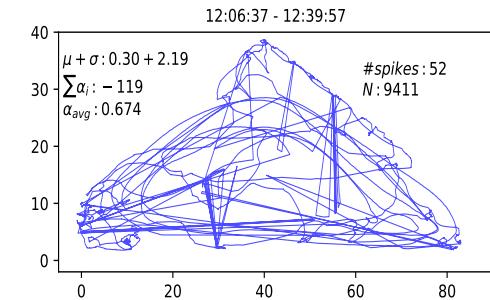
mp4, csv

mp4, csv



mp4, csv

mp4, csv



mp4, csv

mp4, csv

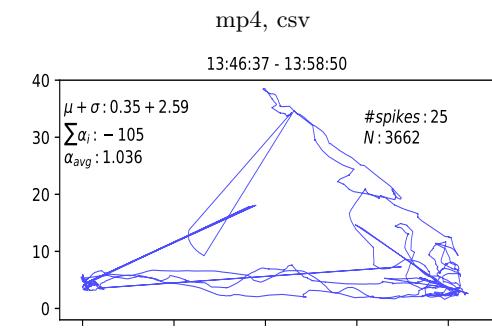
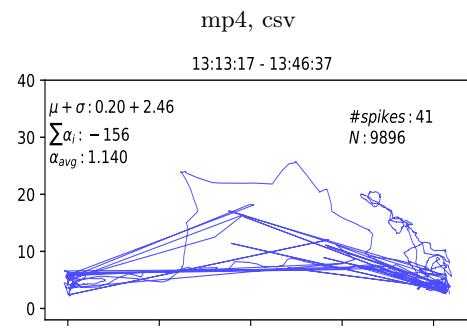
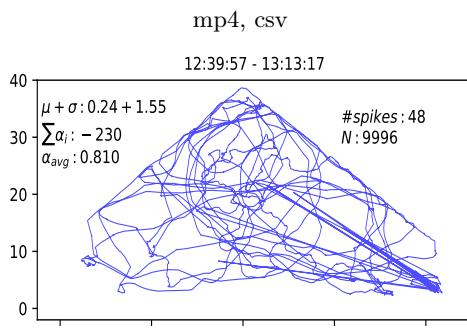
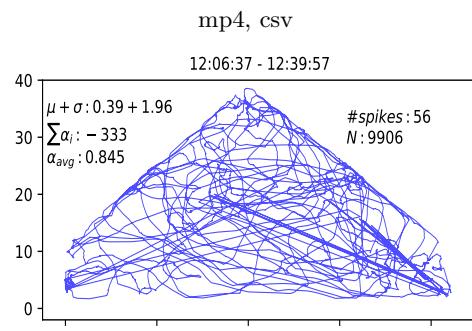
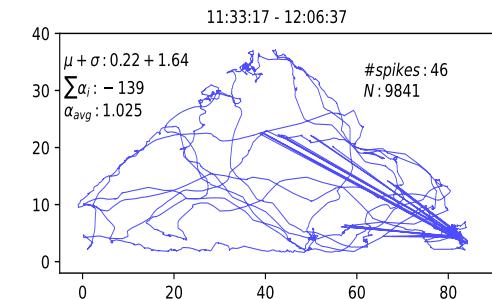
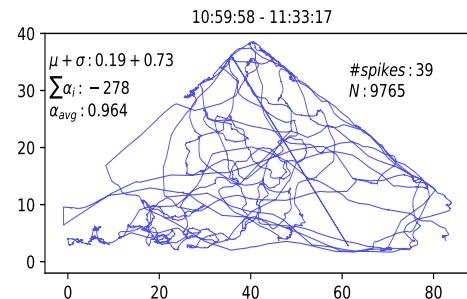
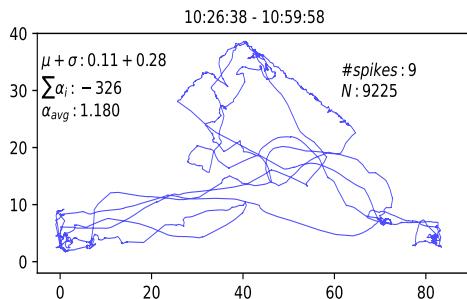
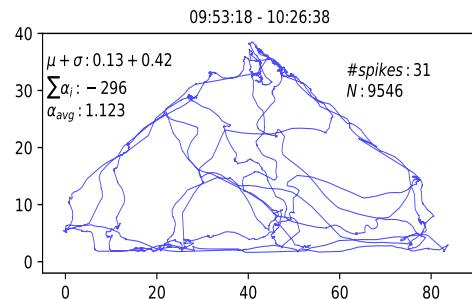
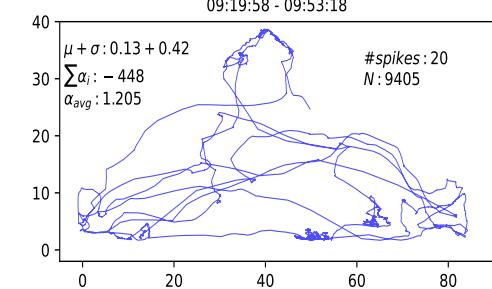
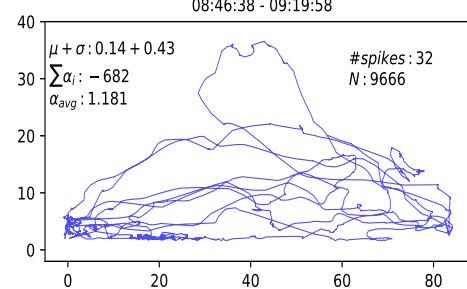
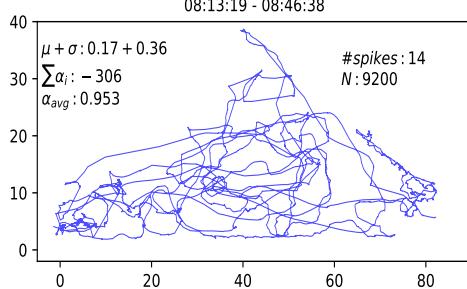
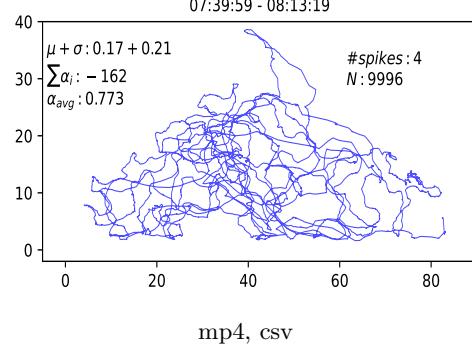
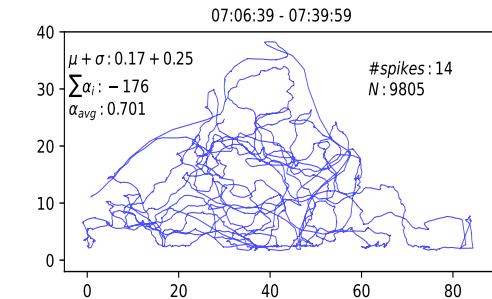
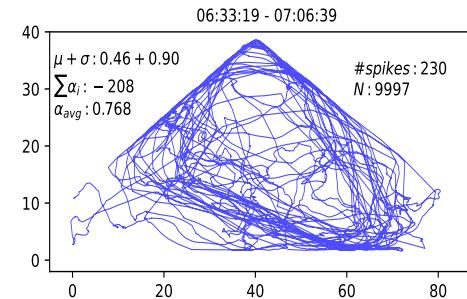
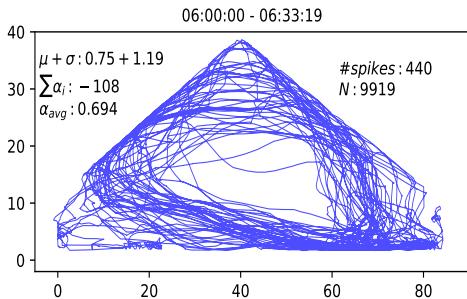
mp4, csv

mp4, csv

Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week3/23520289/20210926\_060000.23520289\_front\_back/  
CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210926\_060000.23520289/

2021/09/26 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

mp4, csv

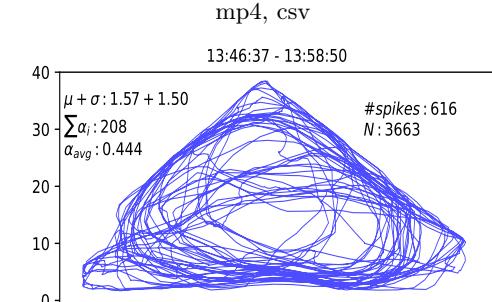
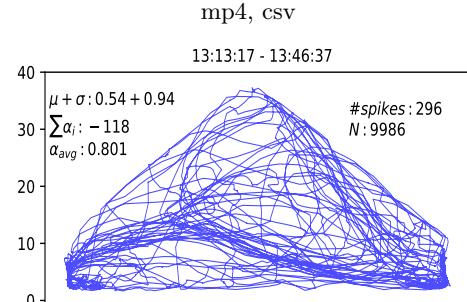
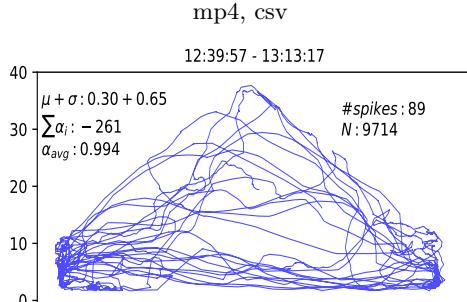
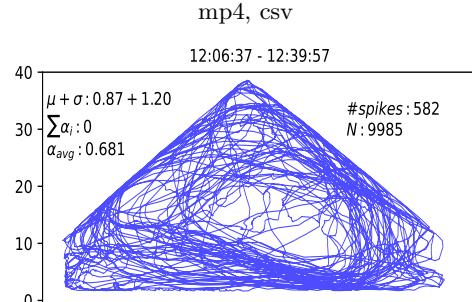
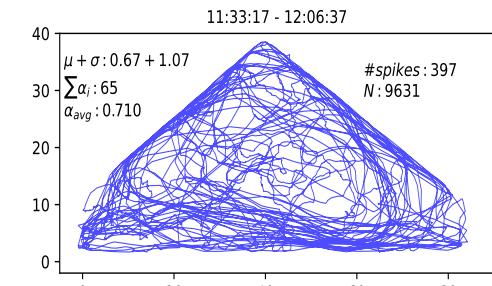
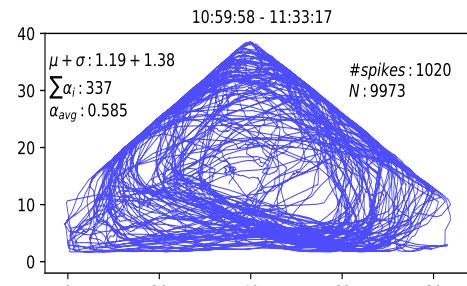
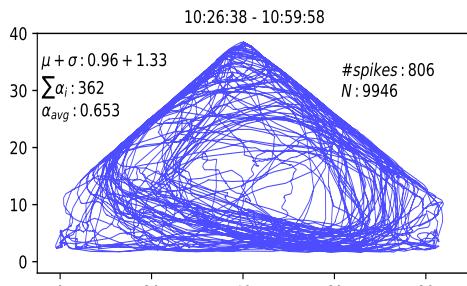
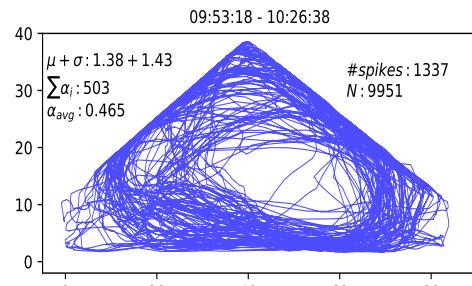
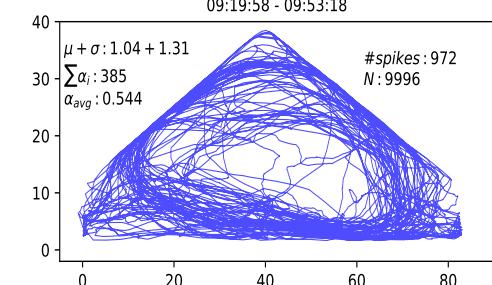
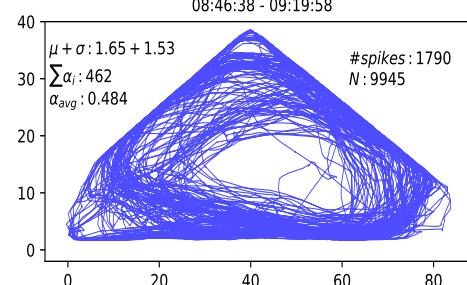
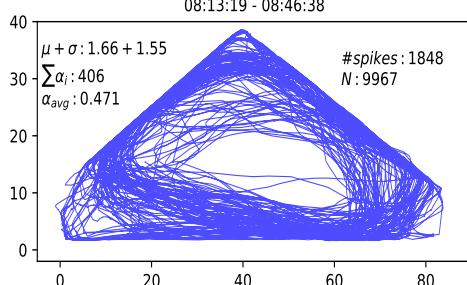
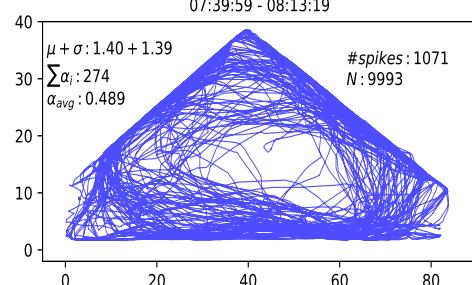
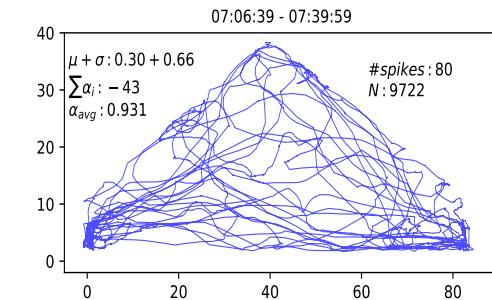
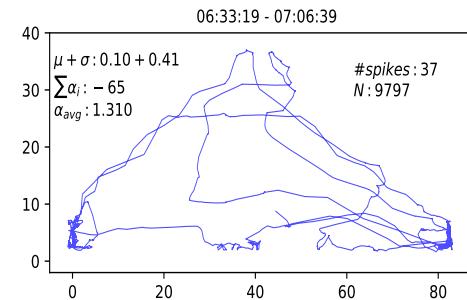
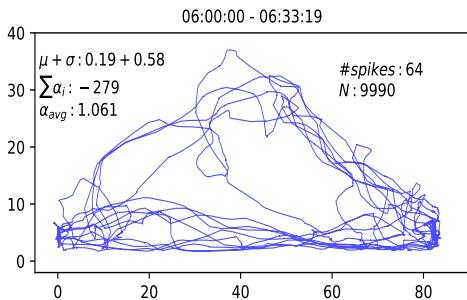
mp4, csv

mp4, csv

Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week3/23520289/20210927\_060000.23520289\_back\_front/  
CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210927\_060000.23520289

2021/09/27 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

mp4, csv

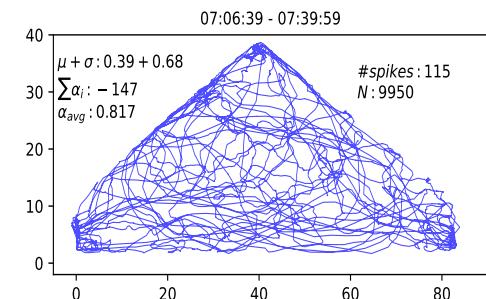
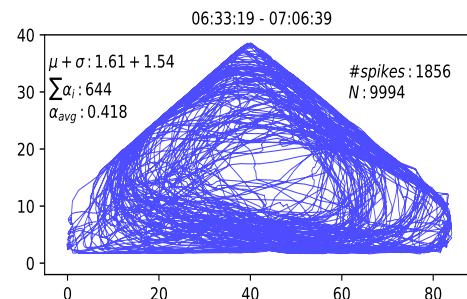
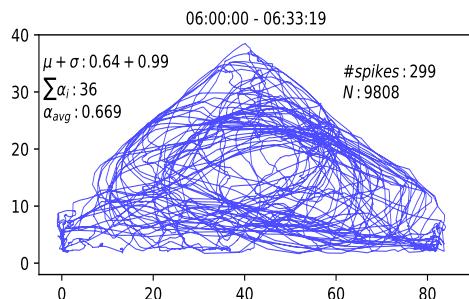
mp4, csv

mp4, csv

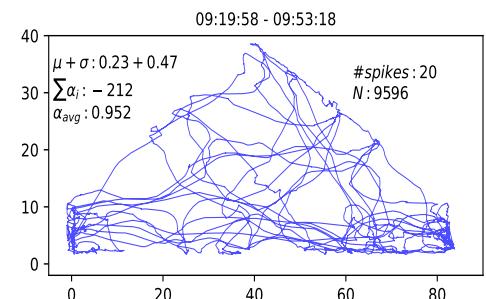
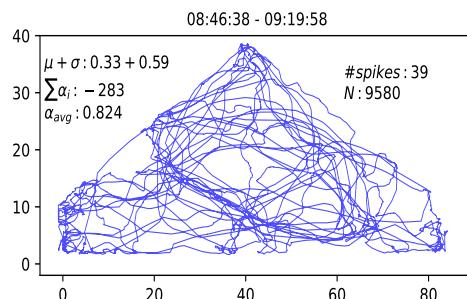
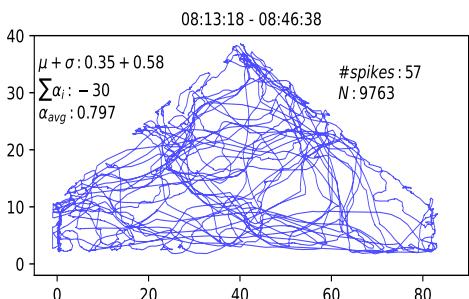
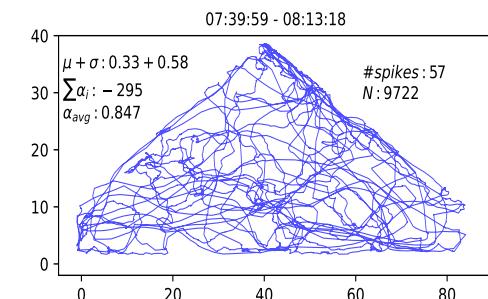
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CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210928\_060000.23520289/

2021/09/28 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

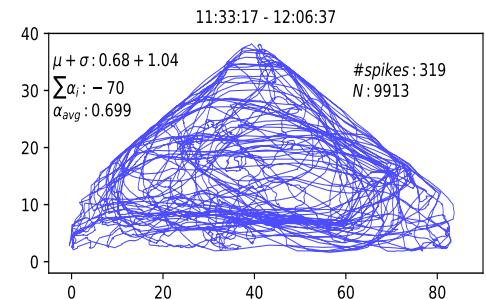
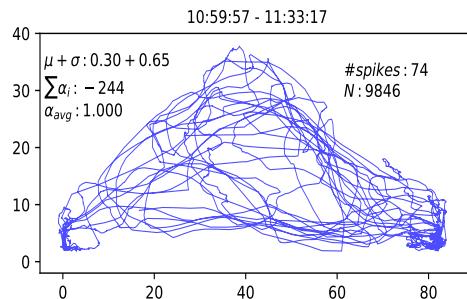
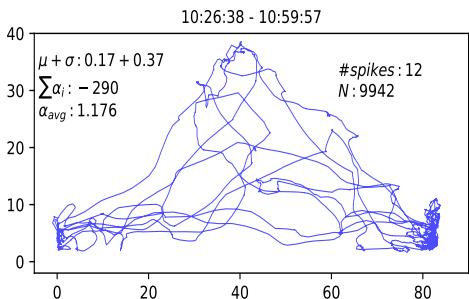
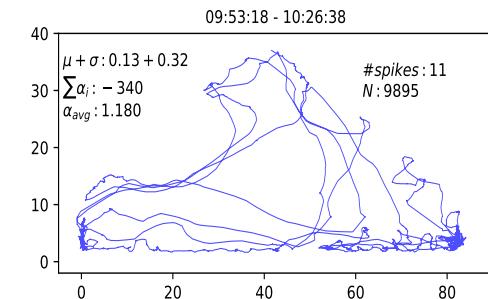


mp4, csv

mp4, csv

mp4, csv

mp4, csv

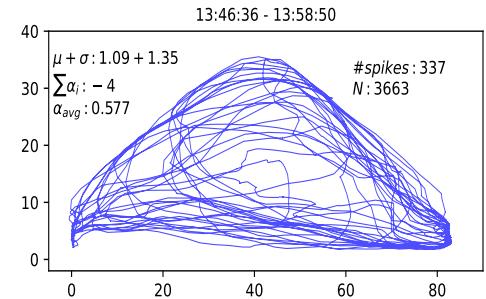
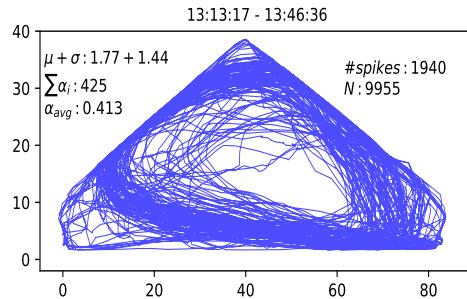
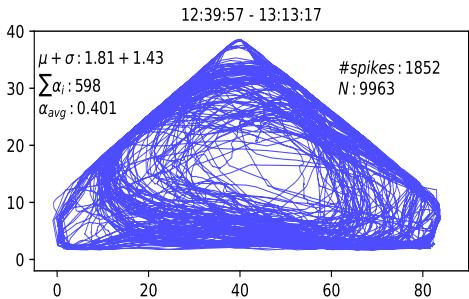
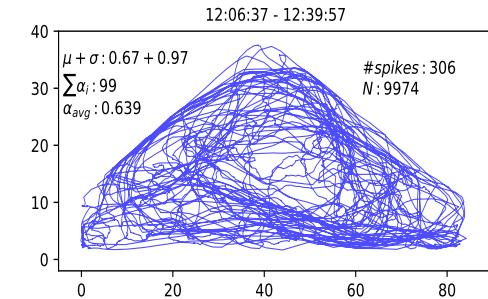


mp4, csv

mp4, csv

mp4, csv

mp4, csv



mp4, csv

mp4, csv

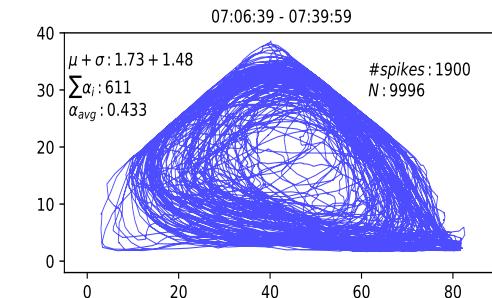
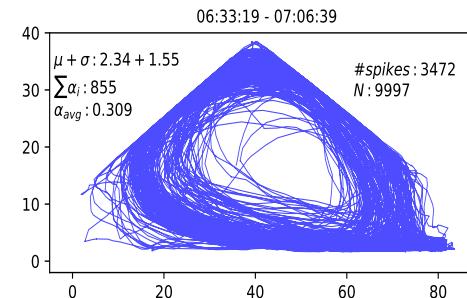
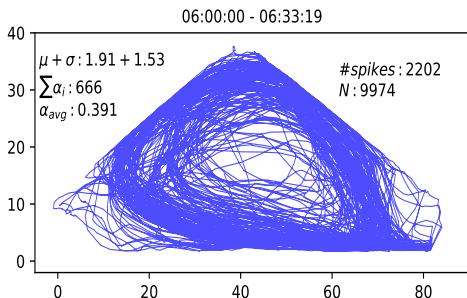
mp4, csv

mp4, csv

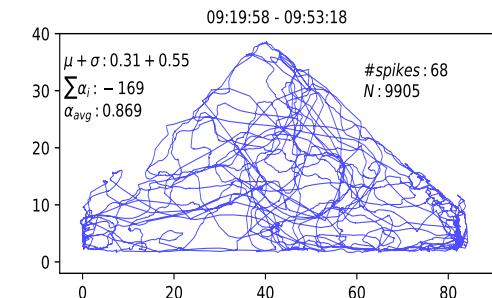
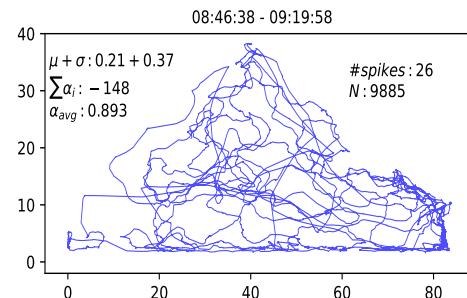
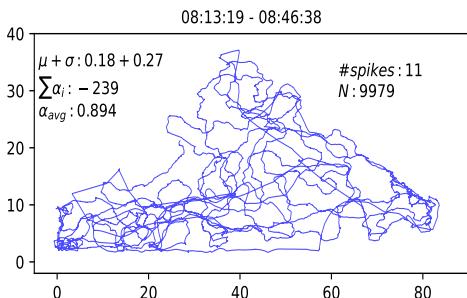
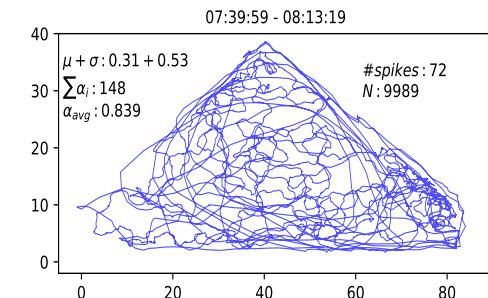
Video: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_recordings/FE\_block1\_recordings/FE\_block1\_recordings\_week3/23520289/20210929\_060000.23520289\_back\_front/  
CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20210929\_060000.23520289

2021/09/29 at 06:00

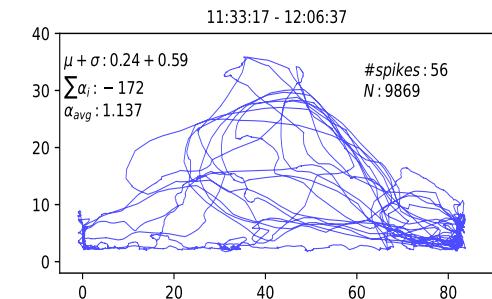
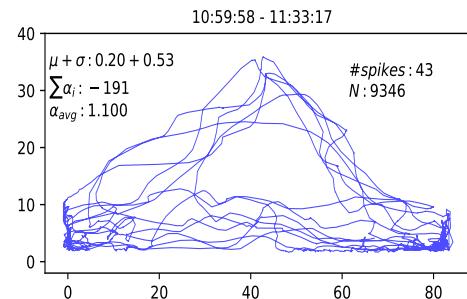
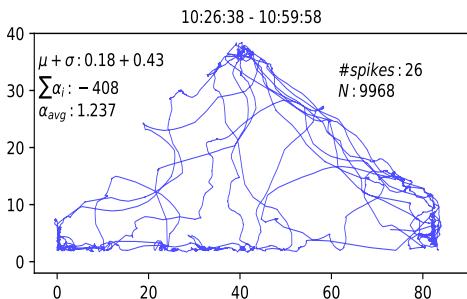
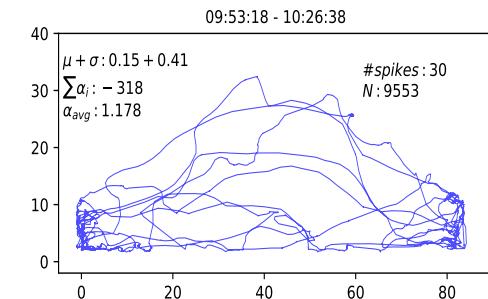
Trajectory over time of the molly at  
camera: 23520289 position: BACK



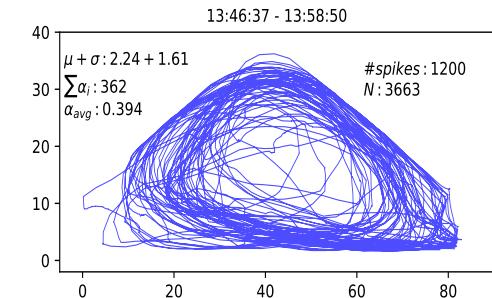
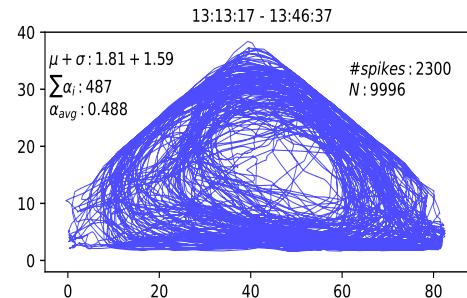
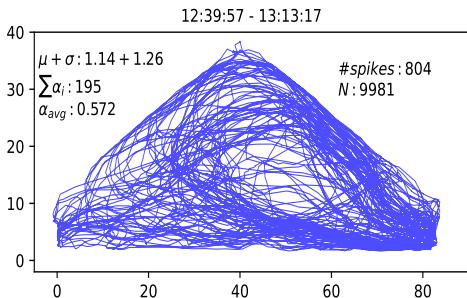
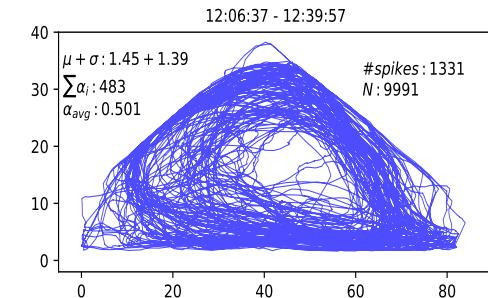
mp4, csv



mp4, csv



mp4, csv



mp4, csv

mp4, csv

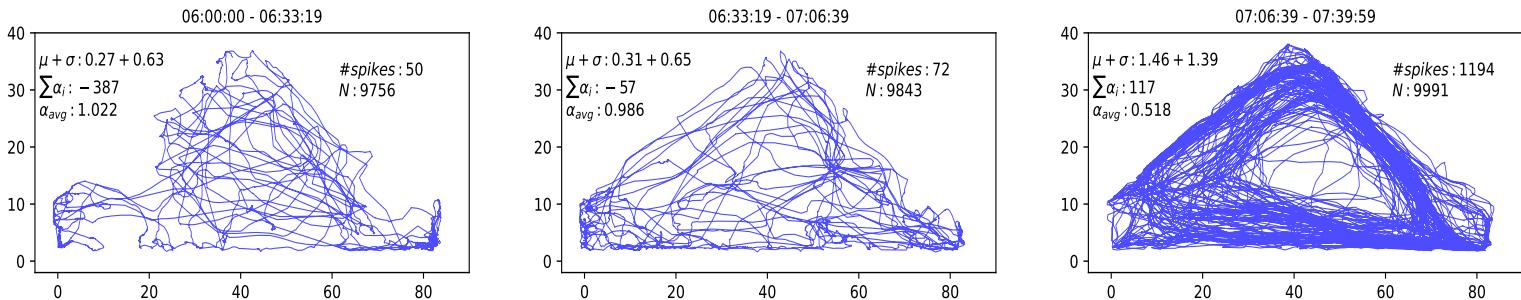
mp4, csv

mp4, csv

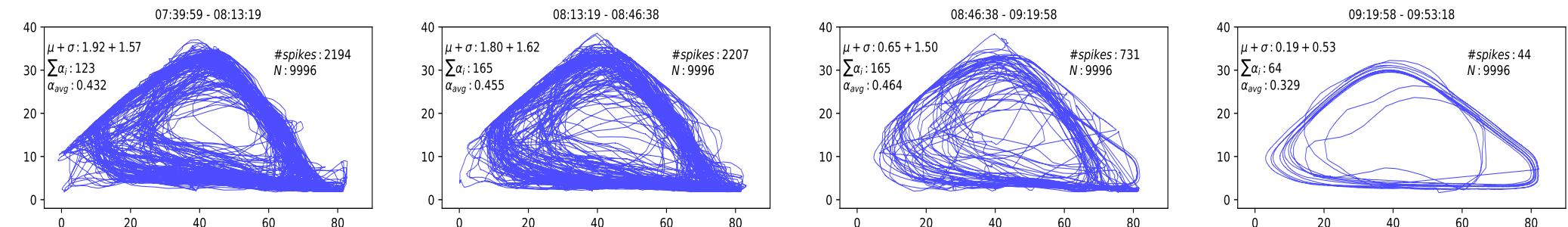
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2021/09/30 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

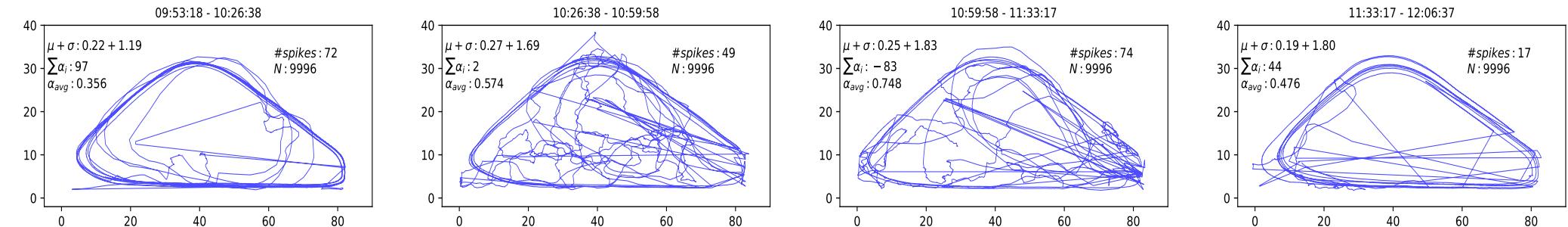


mp4, csv

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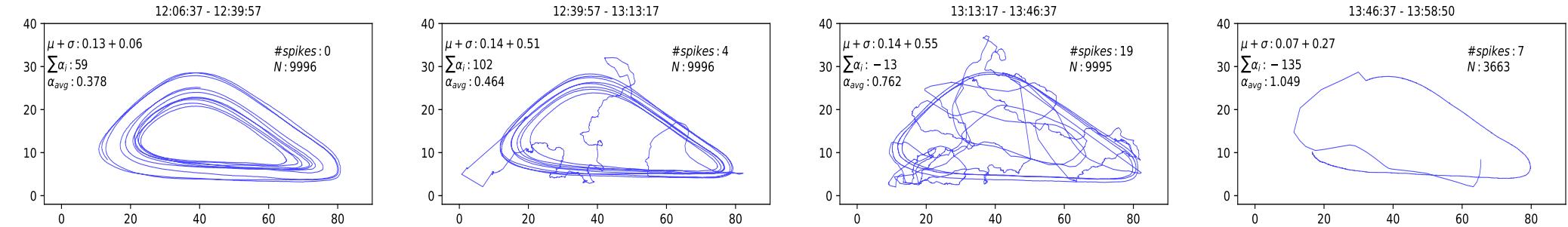


mp4, csv

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mp4, csv



mp4, csv

mp4, csv

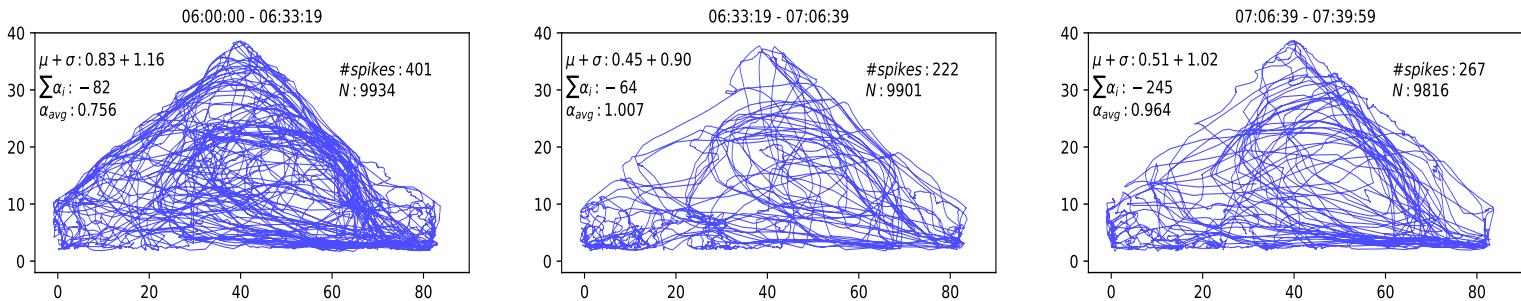
mp4, csv

mp4, csv

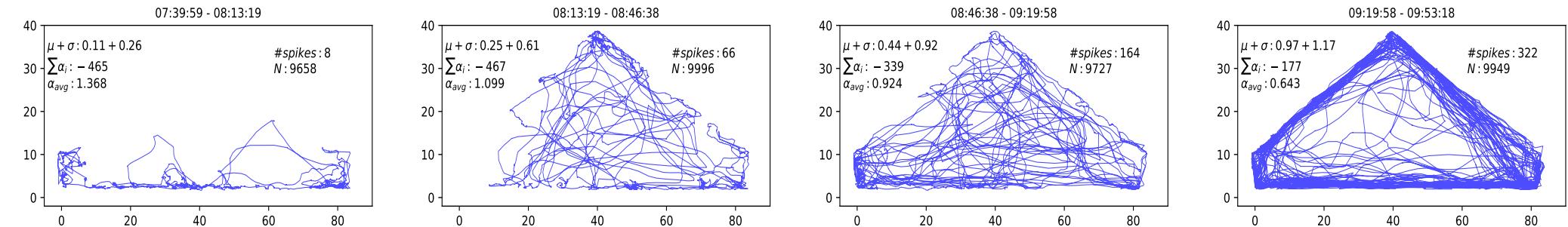
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2021/10/01 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

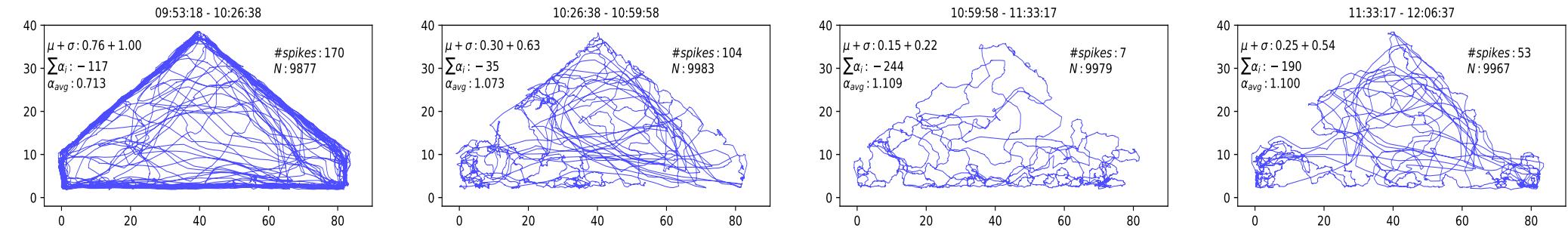


mp4, csv

mp4, csv

mp4, csv

mp4, csv

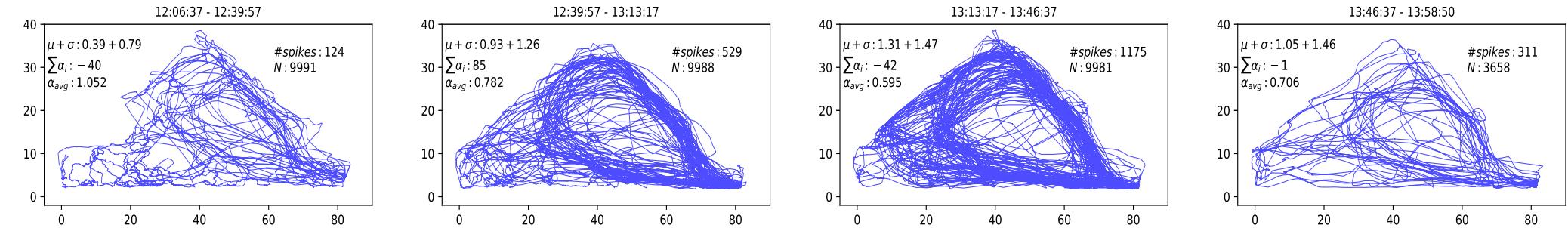


mp4, csv

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mp4, csv

mp4, csv



mp4, csv

mp4, csv

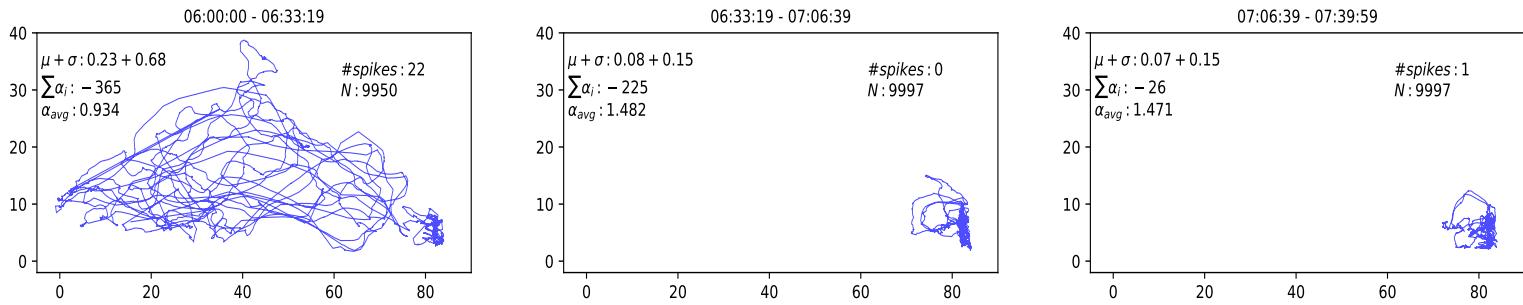
mp4, csv

mp4, csv

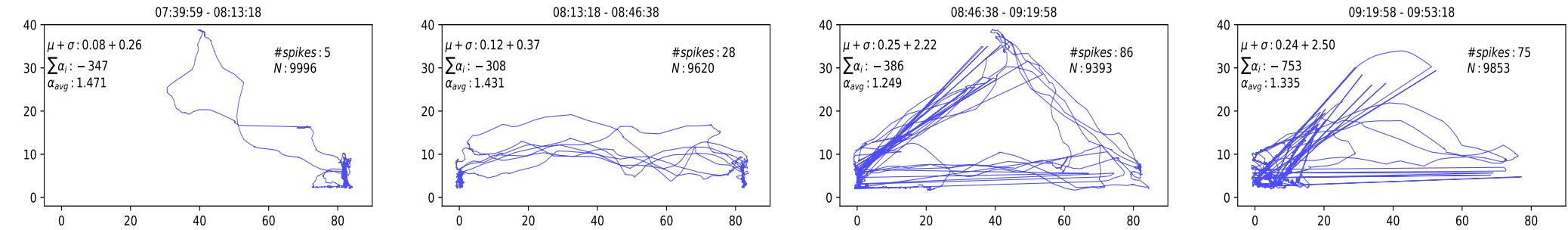
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2021/10/02 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK



mp4, csv

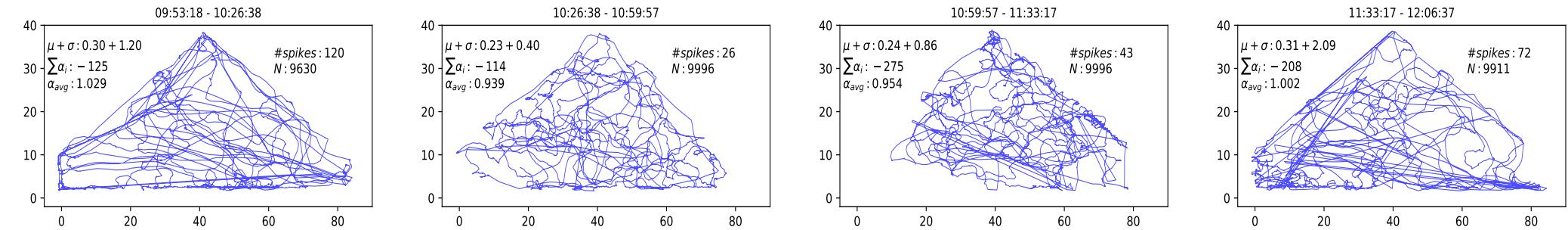


mp4, csv

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mp4, csv

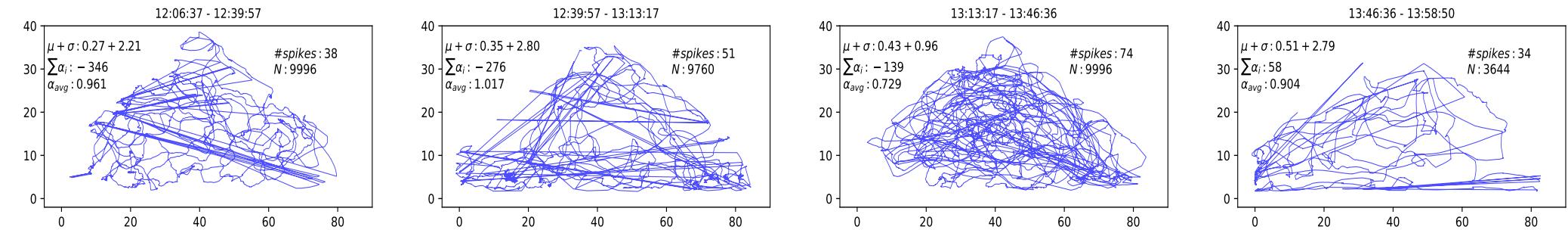


mp4, csv

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mp4, csv

mp4, csv

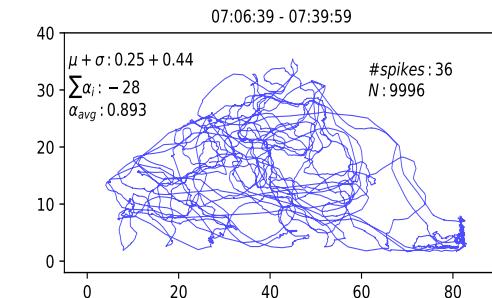
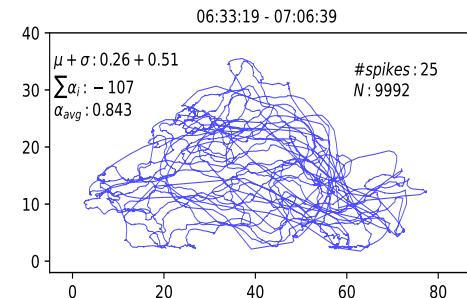
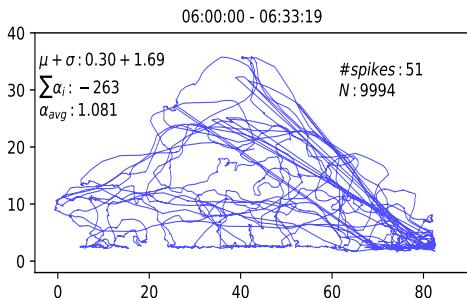
mp4, csv

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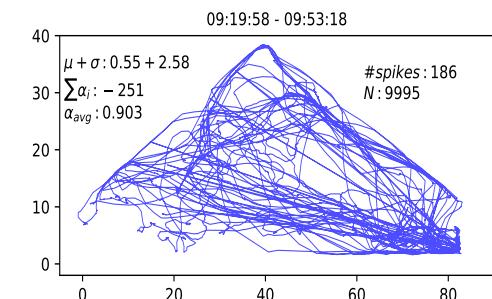
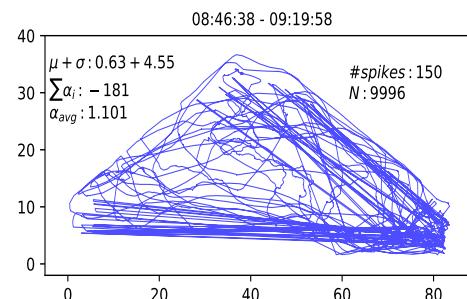
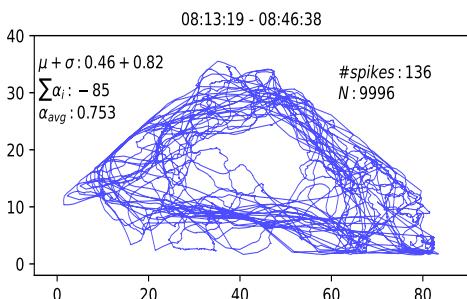
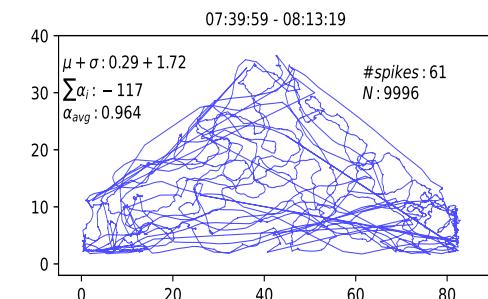
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CSV: /Volumes/data/loopbio\_data/1\_FE\_(fingerprint\_experiment)\_SepDec2021/FE\_block1/FE\_block1\_autotracks\_back/23520289/20211003\_060000.23520289/

2021/10/03 at 06:00

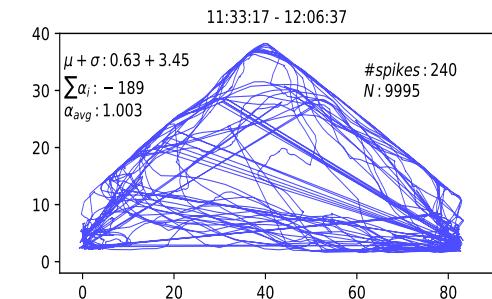
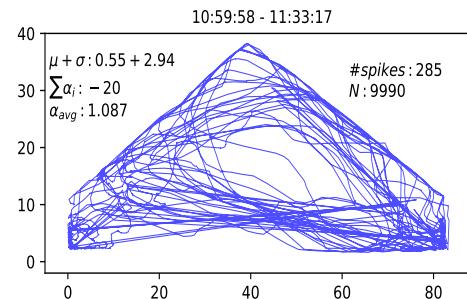
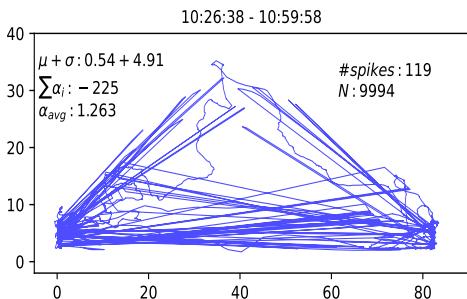
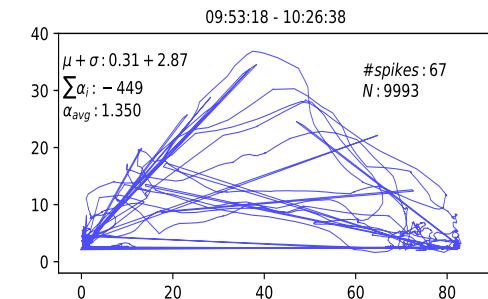
Trajectory over time of the molly at  
camera: 23520289 position: BACK



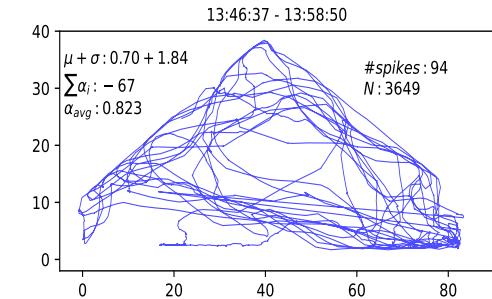
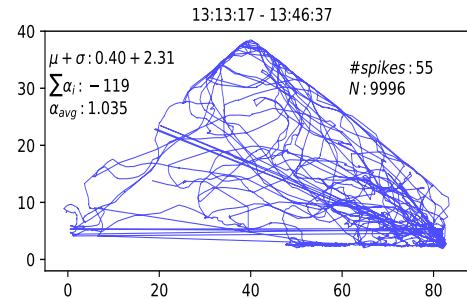
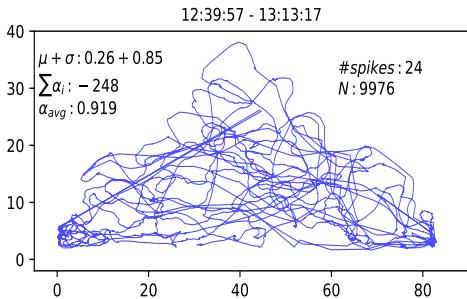
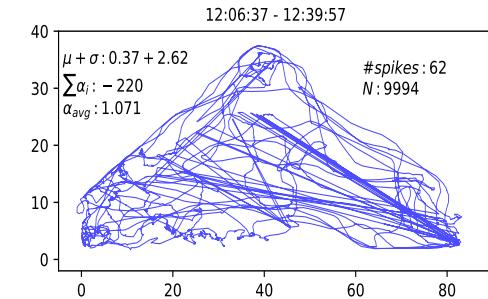
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2021/10/04 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK

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23520289/20211004\_0600/23.pdf

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2021/10/05 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK

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2021/10/06 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK

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2021/10/07 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK

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2021/10/08 at 06:00

Trajectory over time of the molly at  
camera: 23520289 position: BACK

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23520289/20211008\_0600/02.pdf

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