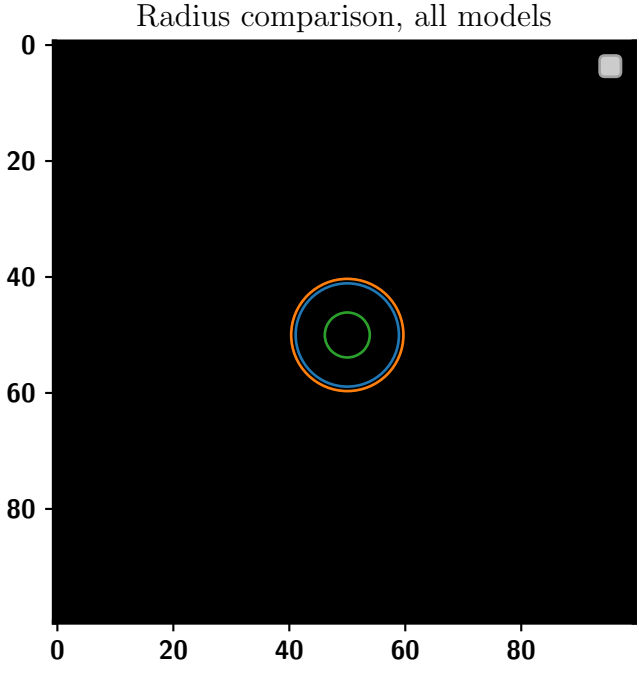
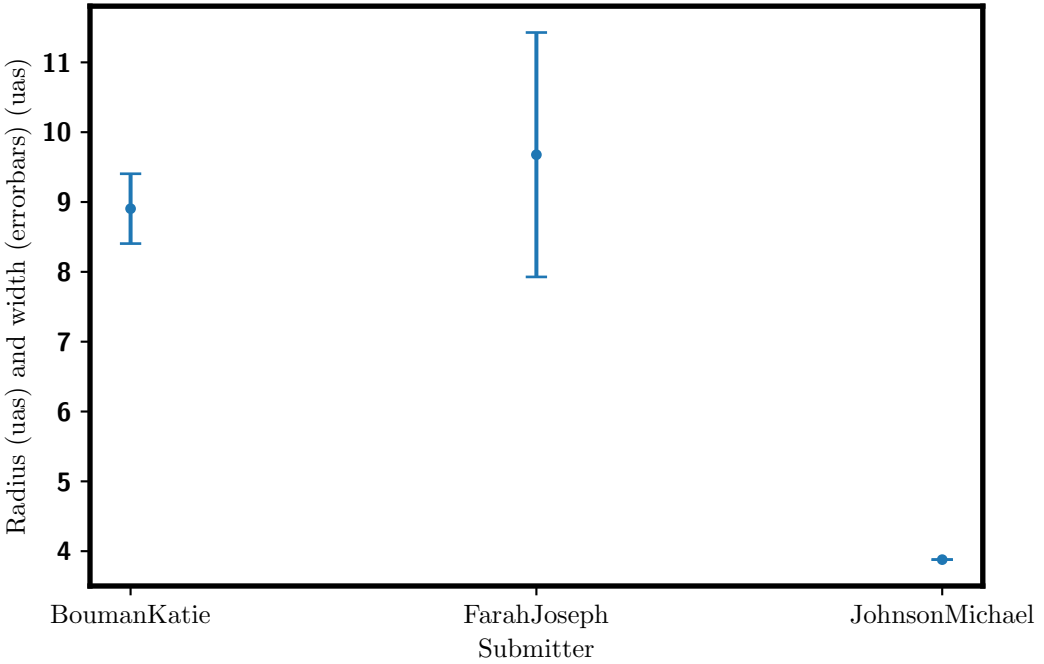
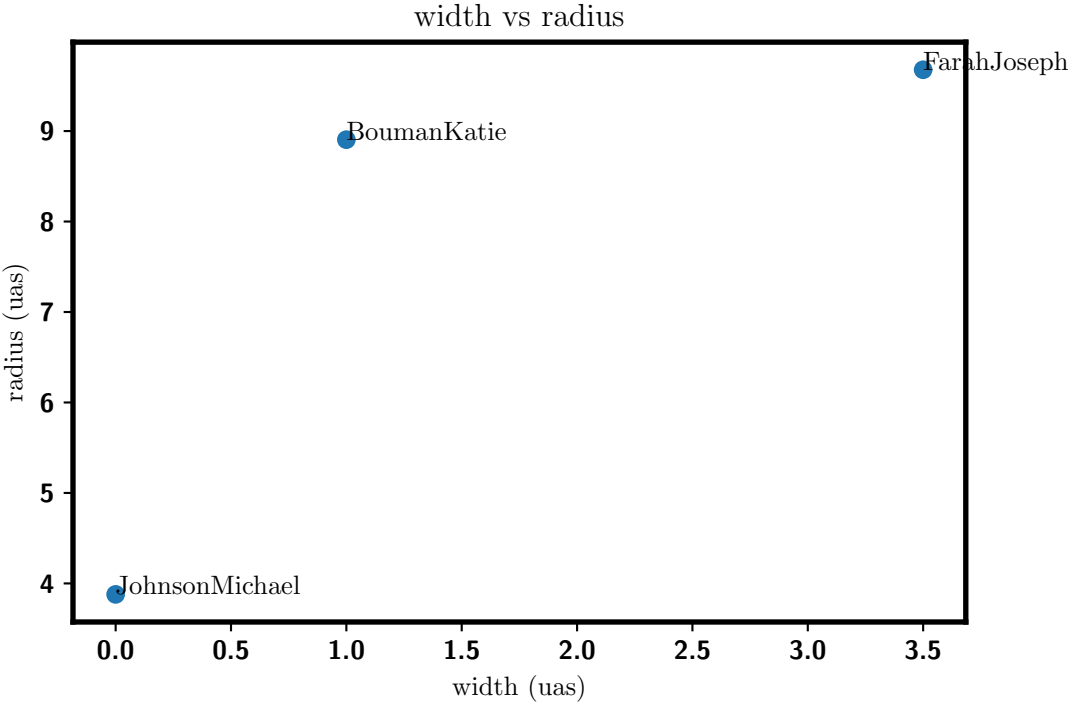
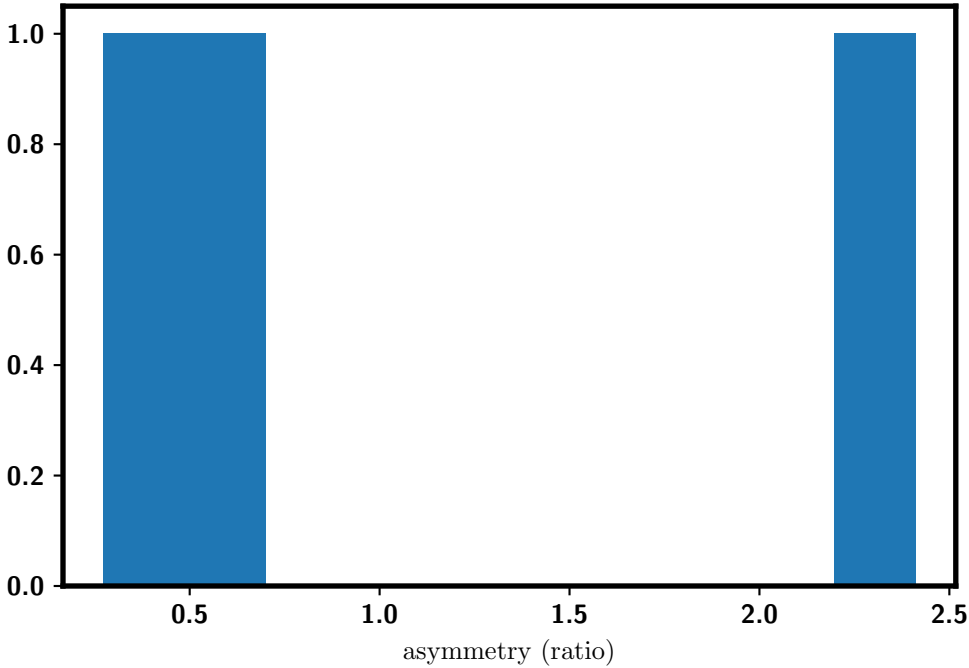
SAMPLEDATA CHALLENGE ANALYSIS

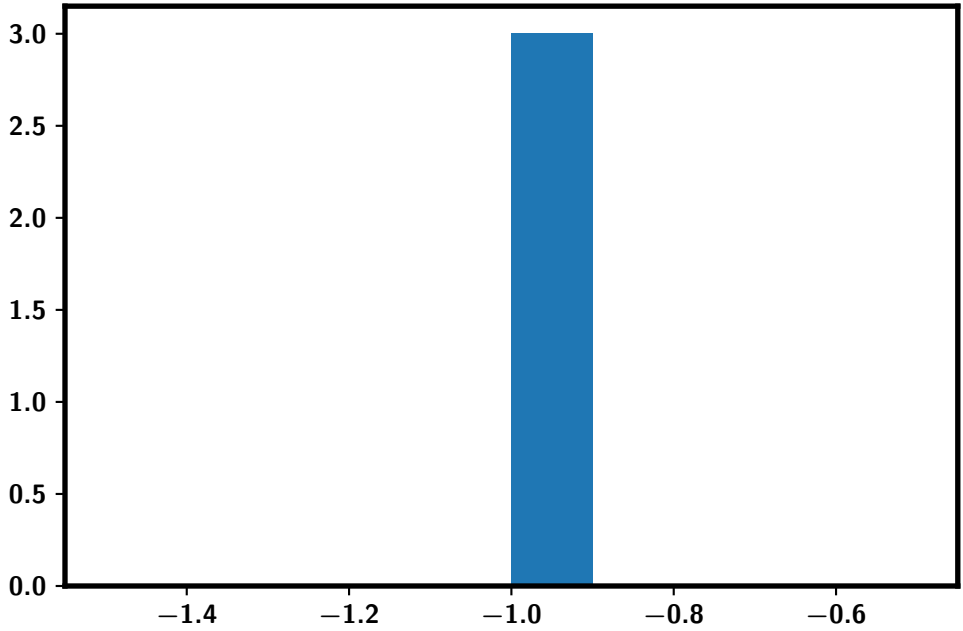
2018-12-02 22:25:44.148880

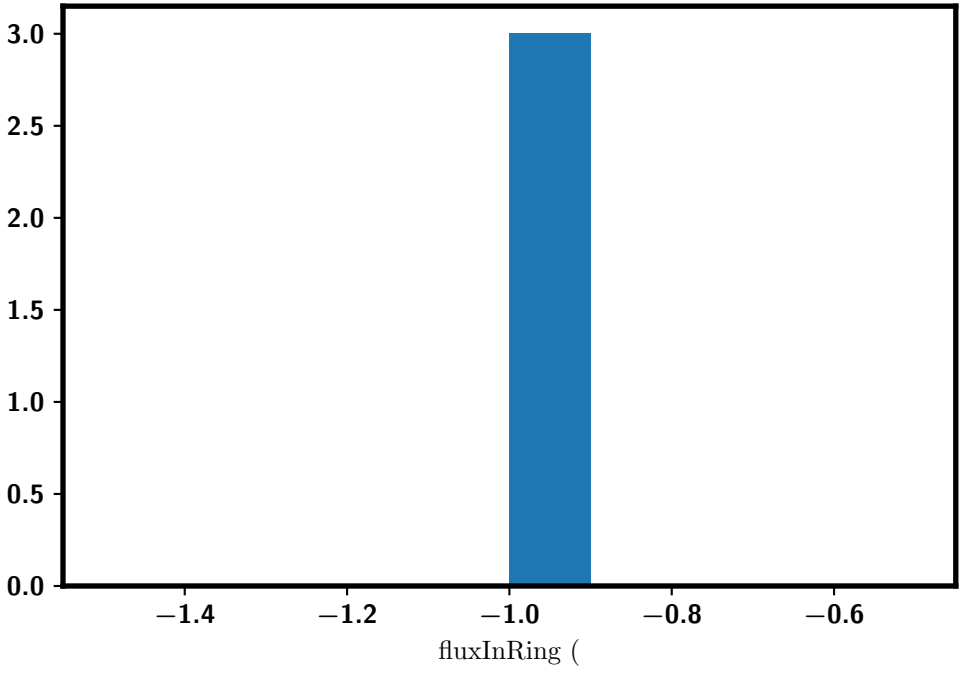

Radius comparison, all models
0
20
40
60
80
0
20
40
60
80

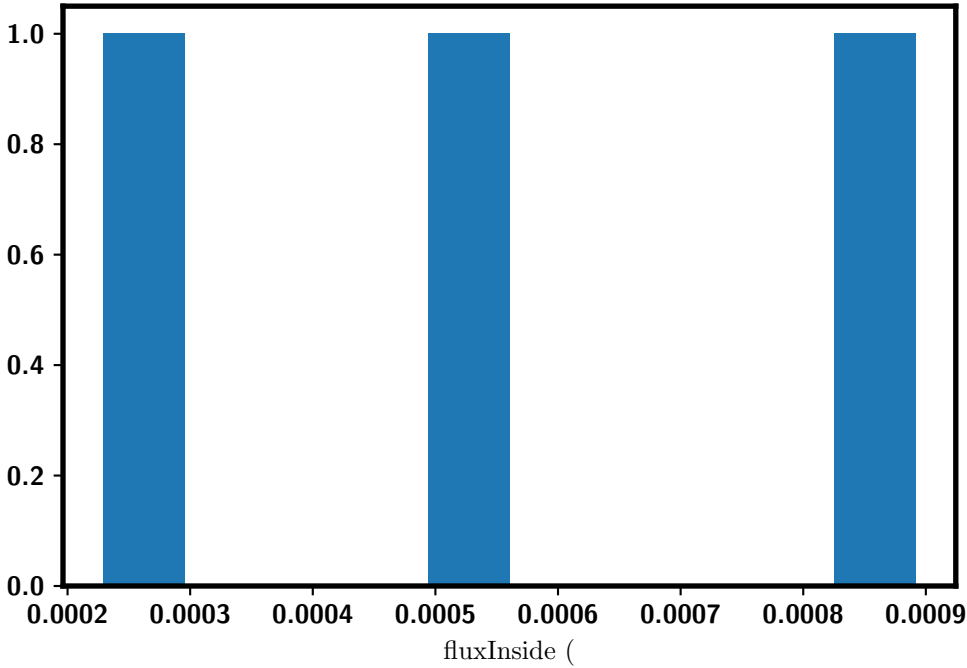

Radius (uas) and width (errorbars) (uas)
11
10
9
8
7
6
5
4
BoumanKatie
FarahJoseph
JohnsonMichael
Submitter

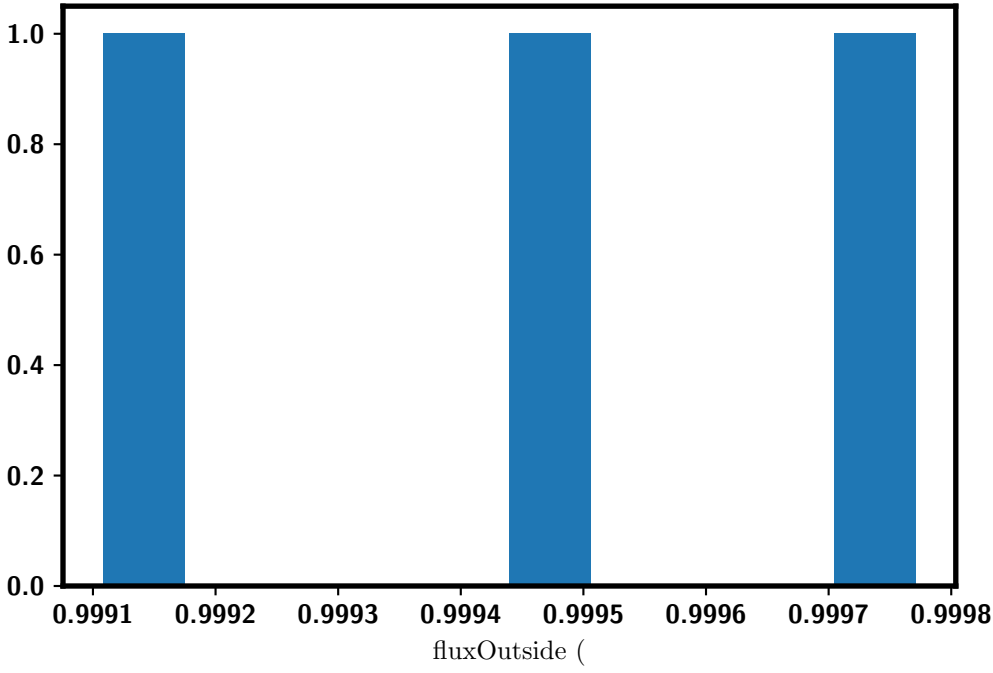

width vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
radius (uas)
width (uas)
9
8
7
6
5
4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5

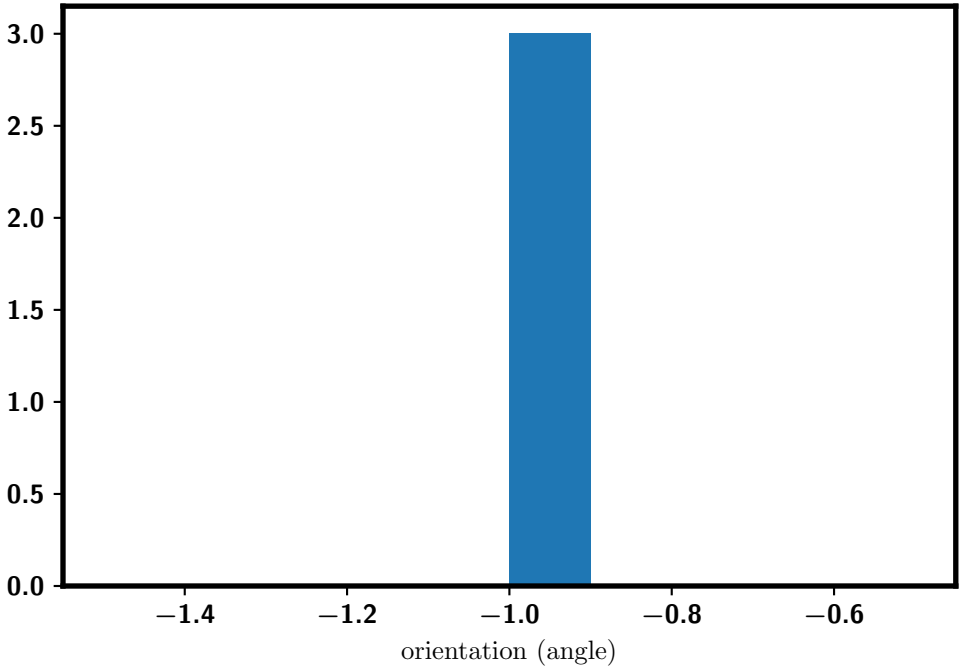

1.0
0.8
0.6
0.4
0.2
0.0
0.5
1.0
1.5
2.0
2.5
asymmetry (ratio)

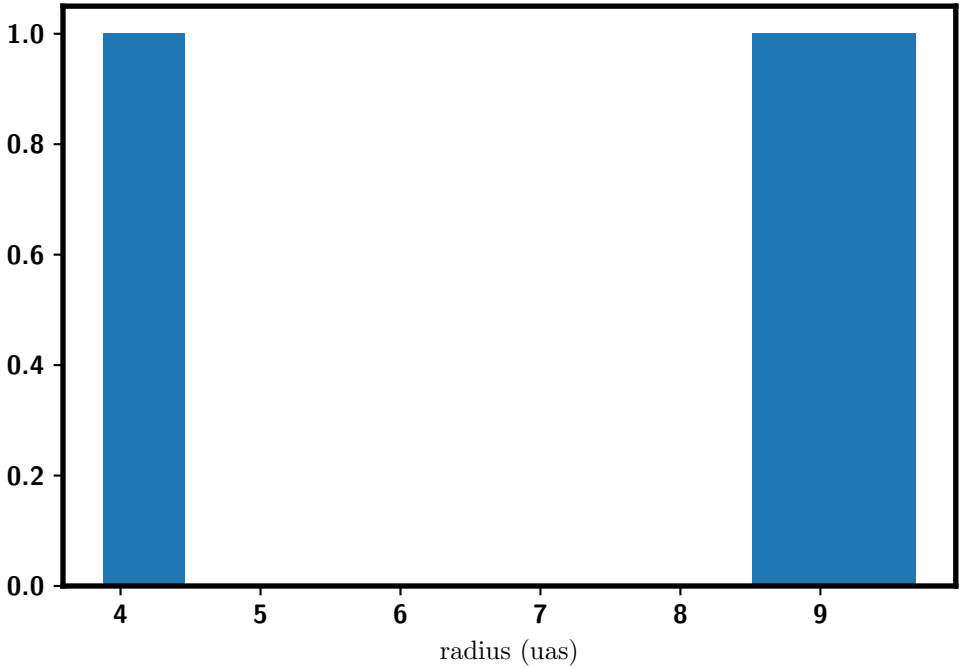

3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1.4
−1.2
−1.0
−0.8
−0.6
fluxInDepression (

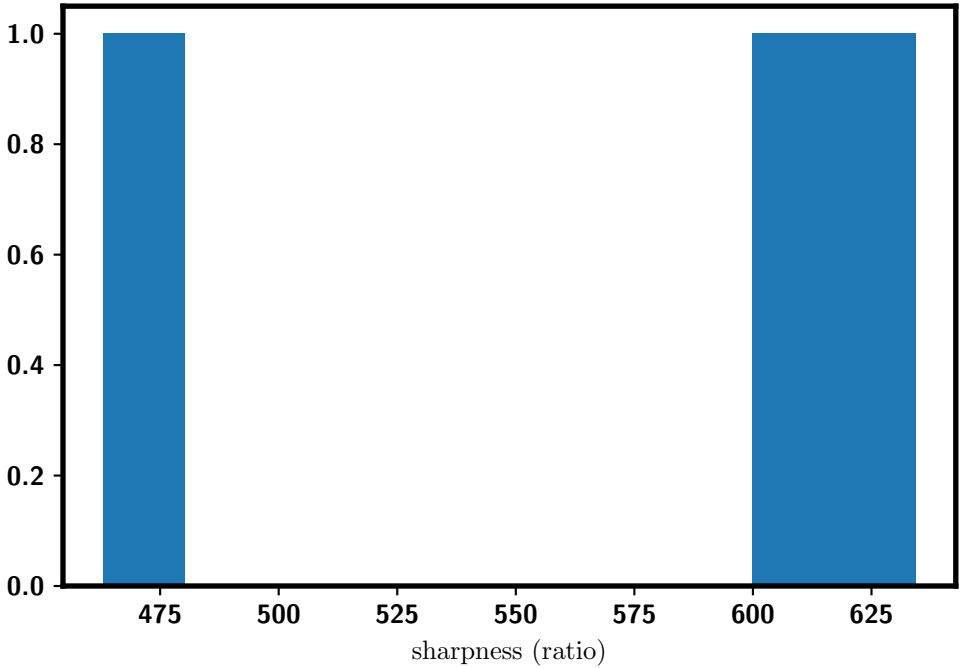

3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1.4
−1.2
−1.0
−0.8
−0.6
fluxInRing (

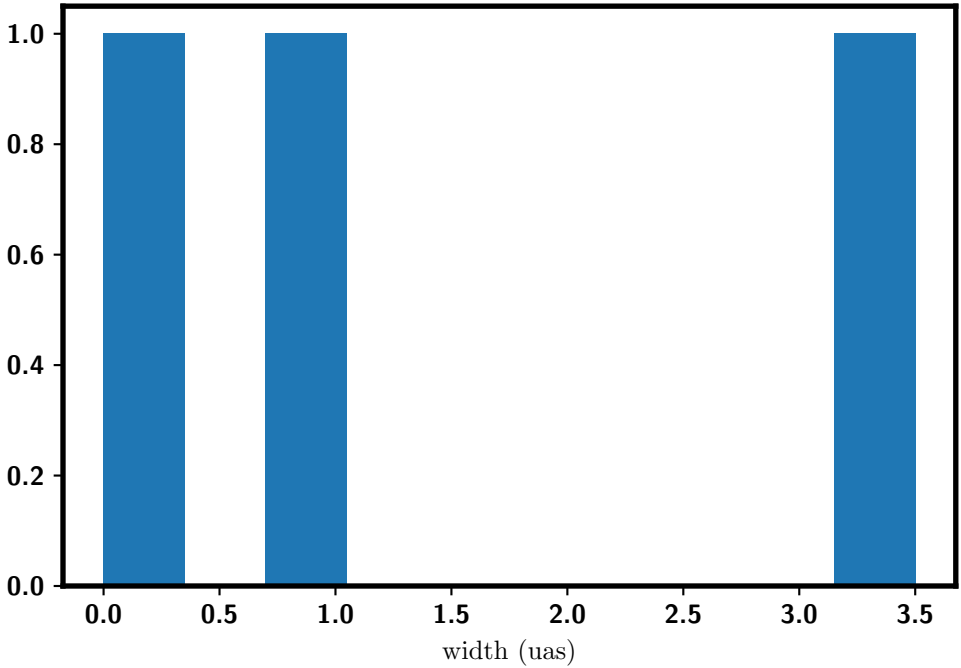

1.0
0.8
0.6
0.4
0.2
0.0
0.0002
0.0003
0.0004
0.0005
0.0006
0.0007
0.0008
0.0009
fluxInside (

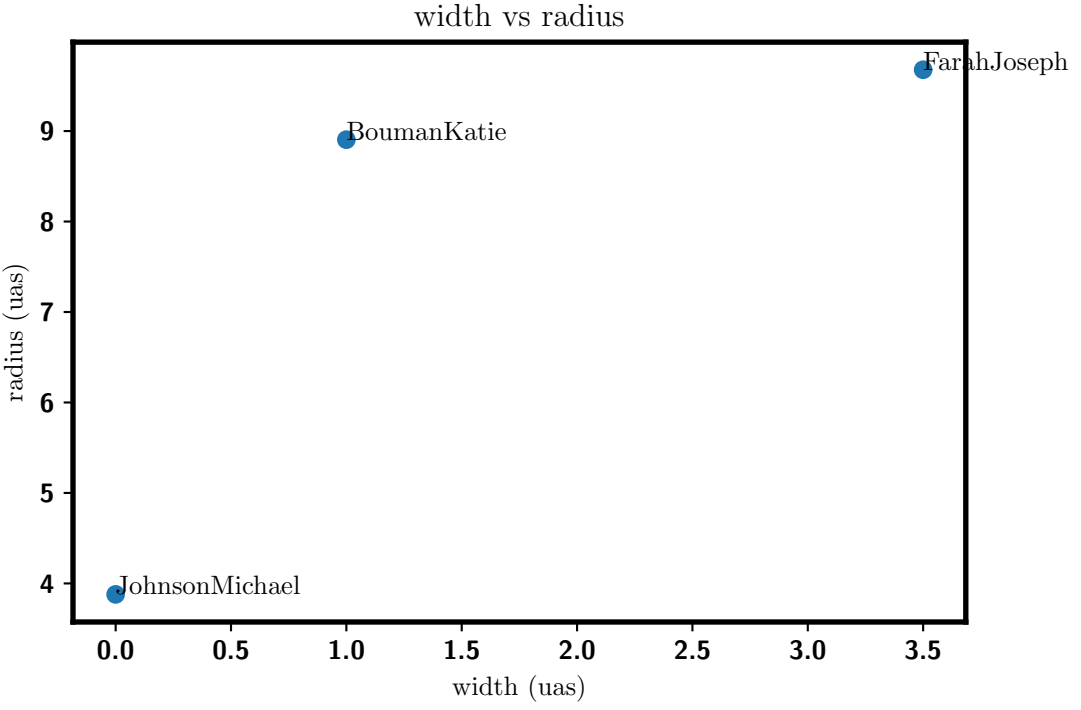

1.0
0.8
0.6
0.4
0.2
0.0
0.9991
0.9992
0.9993
0.9994
0.9995
0.9996
0.9997
0.9998
fluxOutside (

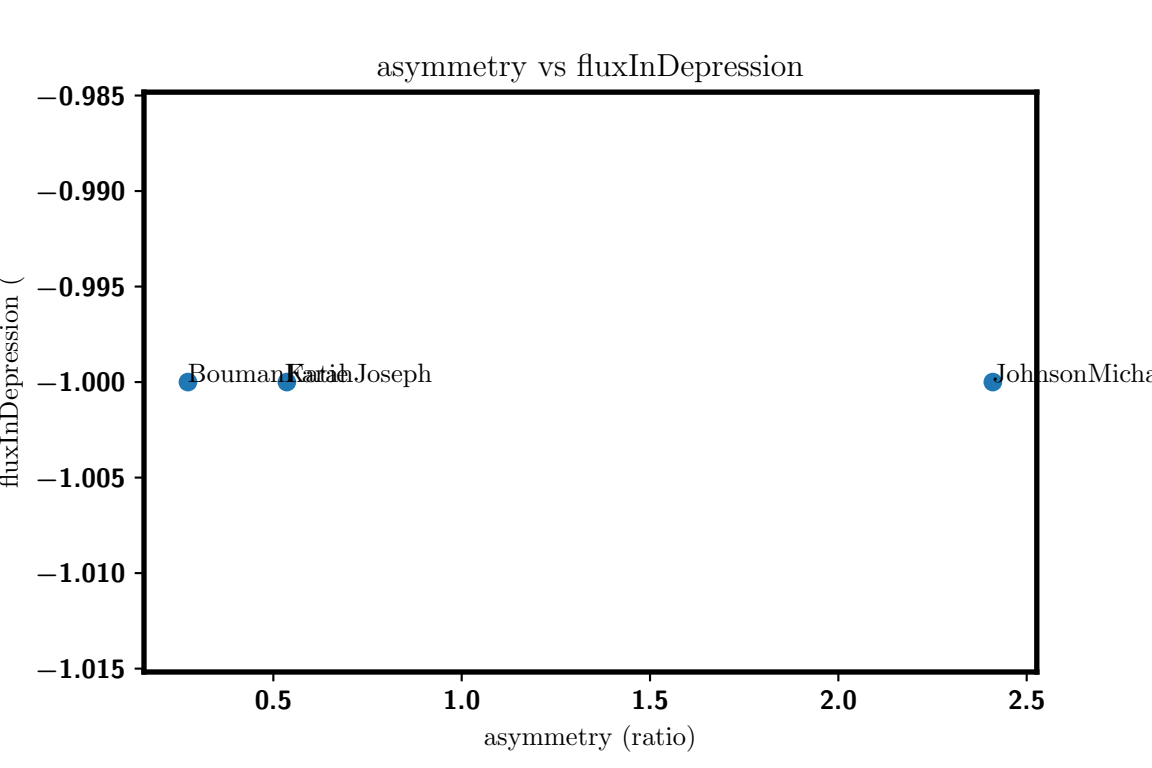

3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1.4
−1.2
−1.0
−0.8
−0.6
orientation (angle)

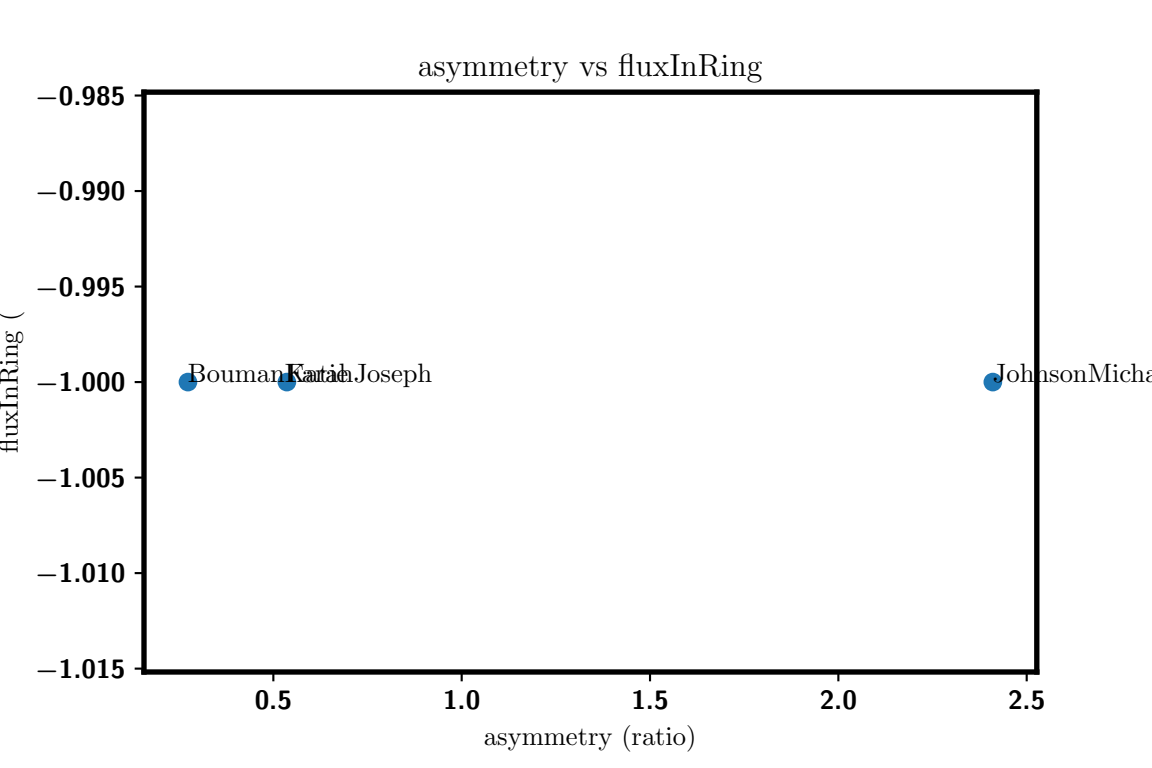

1.0
0.8
0.6
0.4
0.2
0.0
4
5
6
7
8
9
radius (uas)

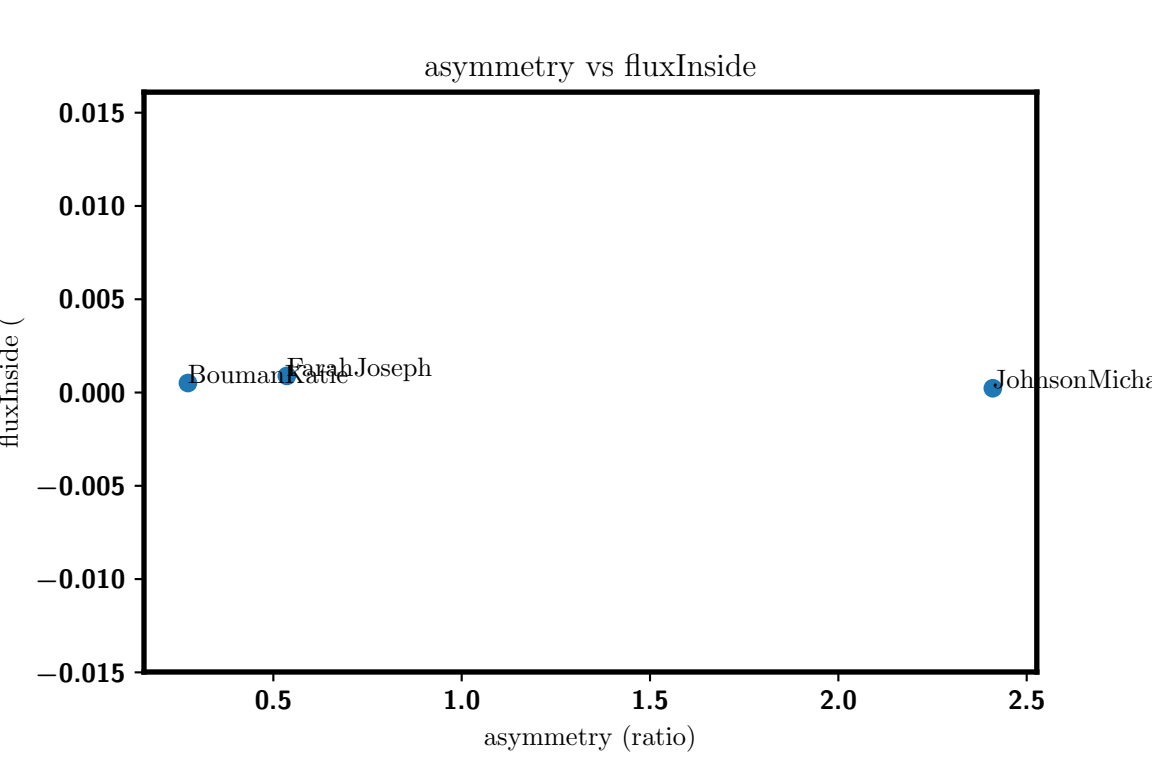

1.0
0.8
0.6
0.4
0.2
0.0
475
500
525
550
575
600
625
sharpness (ratio)

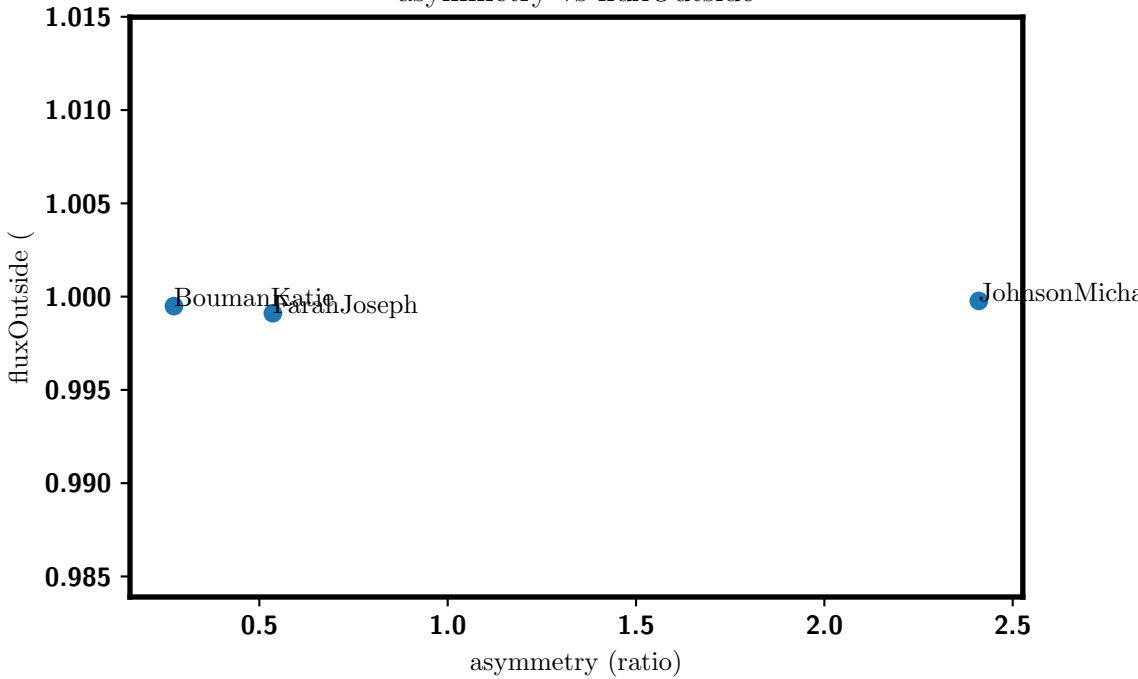

1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
width (uas)

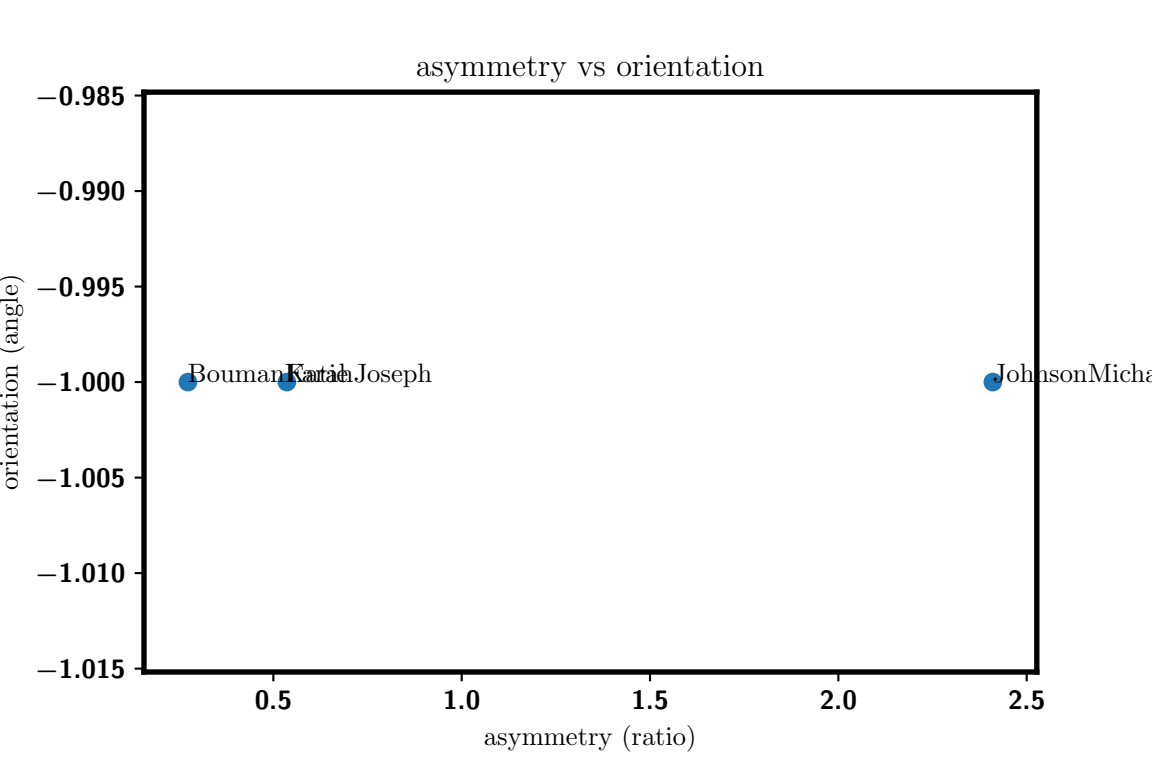

width vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
radius (uas)
width (uas)
9
8
7
6
5
4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5

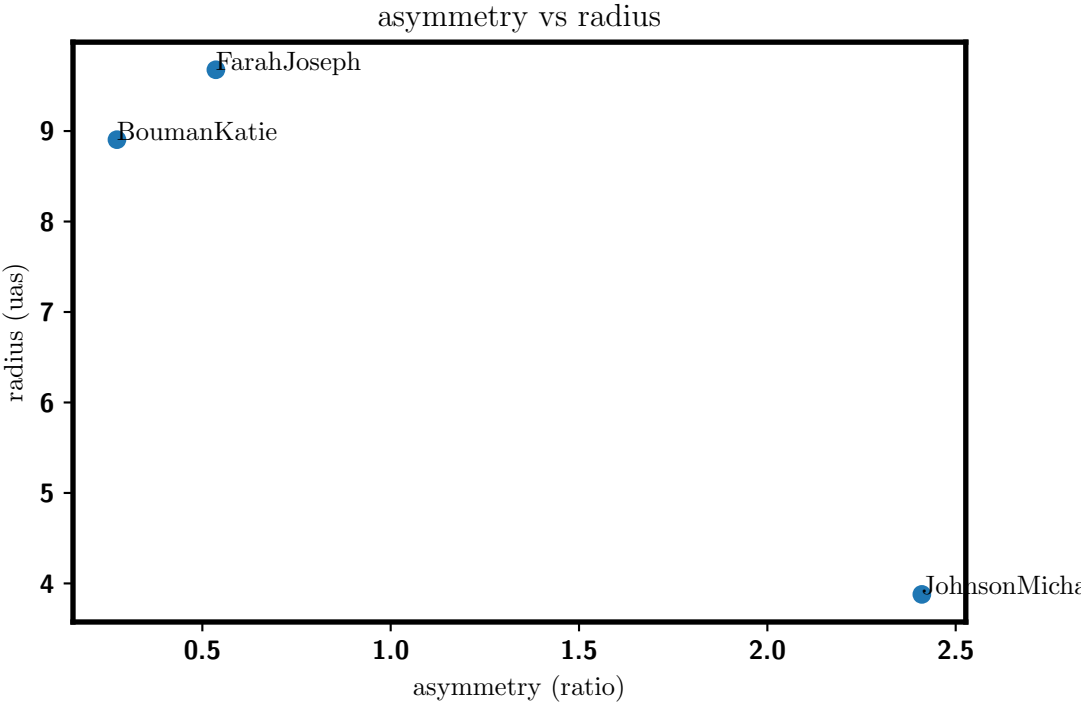

asymmetry vs fluxInDepression
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInDepression (
BoumanKatie
JohnsonMicha
0.5
1.0
1.5
2.0
2.5
asymmetry (ratio)

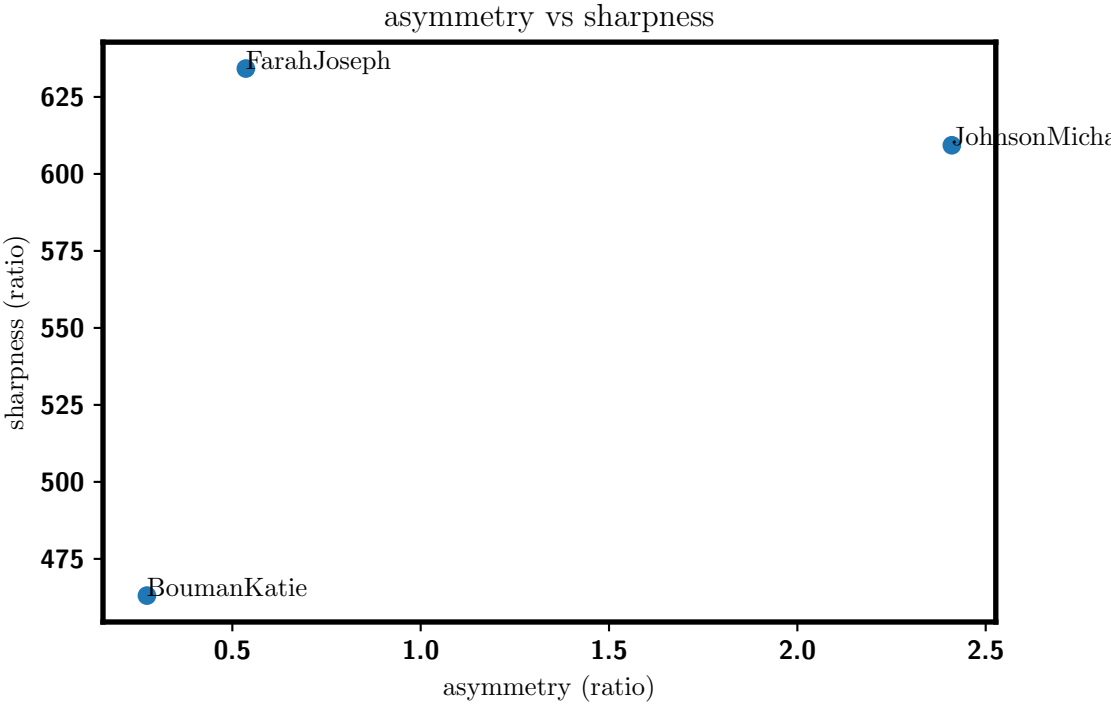

asymmetry vs fluxInRing
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInRing (
Bouman
Joseph
JohnsonMicha
0.5
1.0
1.5
2.0
2.5
asymmetry (ratio)

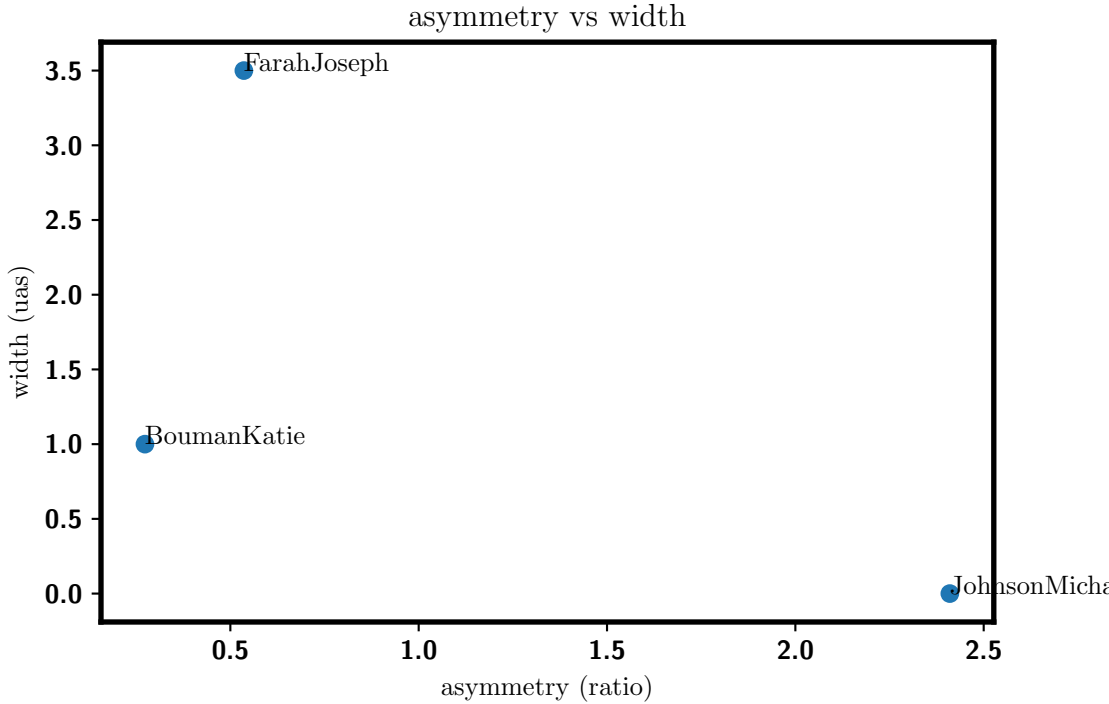

asymmetry vs fluxInside
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
fluxInside (
BoumanKatie
FarahJoseph
JohnsonMicha
0.5
1.0
1.5
2.0
2.5
asymmetry (ratio)

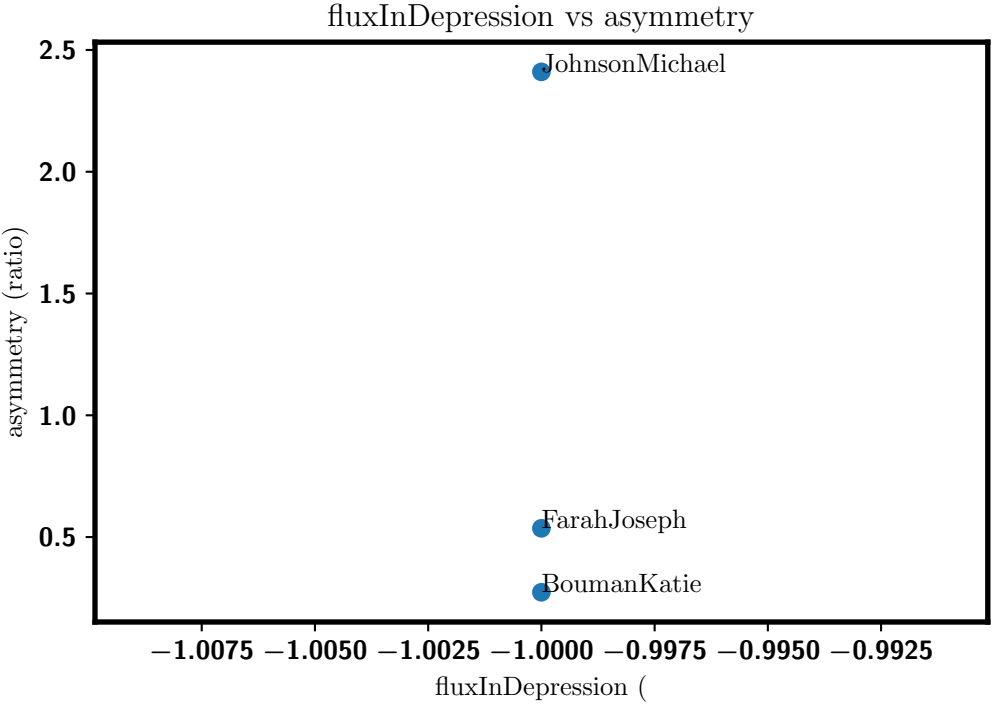

asymmetry vs fluxOutside
1.015
1.010
1.005
1.000
0.995
0.990
0.985
fluxOutside (
BoumanKatie
FarahJoseph
JohnsonMicha
0.5
1.0
1.5
2.0
2.5
asymmetry (ratio)

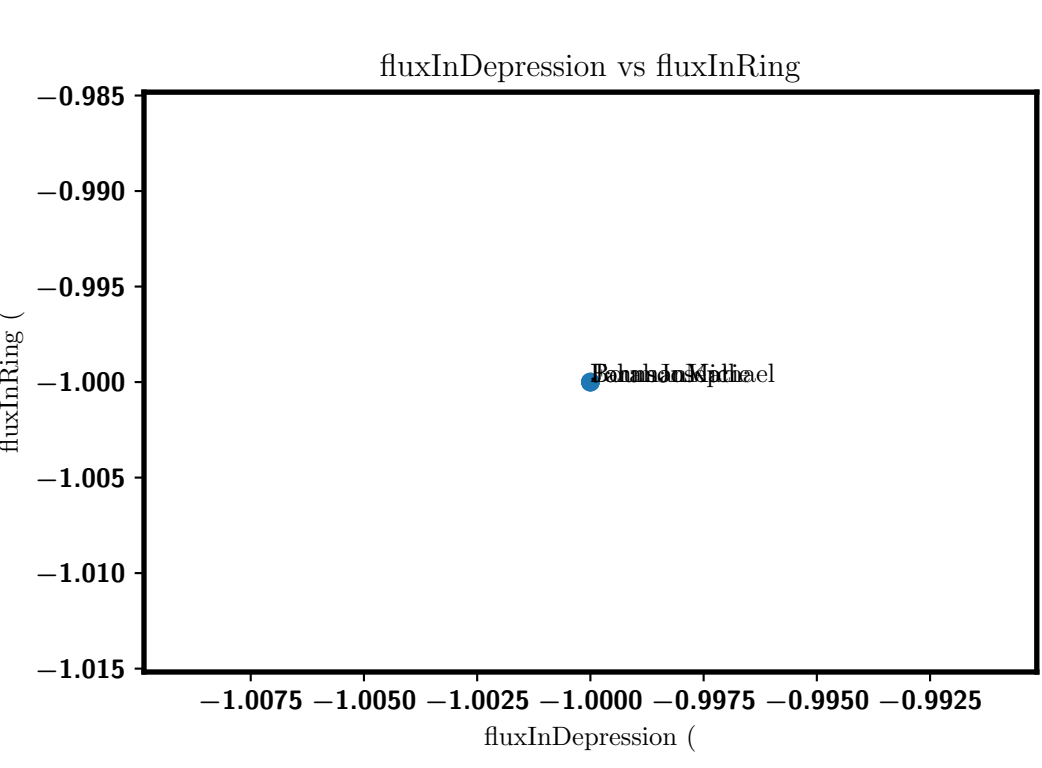

asymmetry vs orientation
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
orientation (angle)
0.5
1.0
1.5
2.0
2.5
asymmetry (ratio)
JohnsonMicha

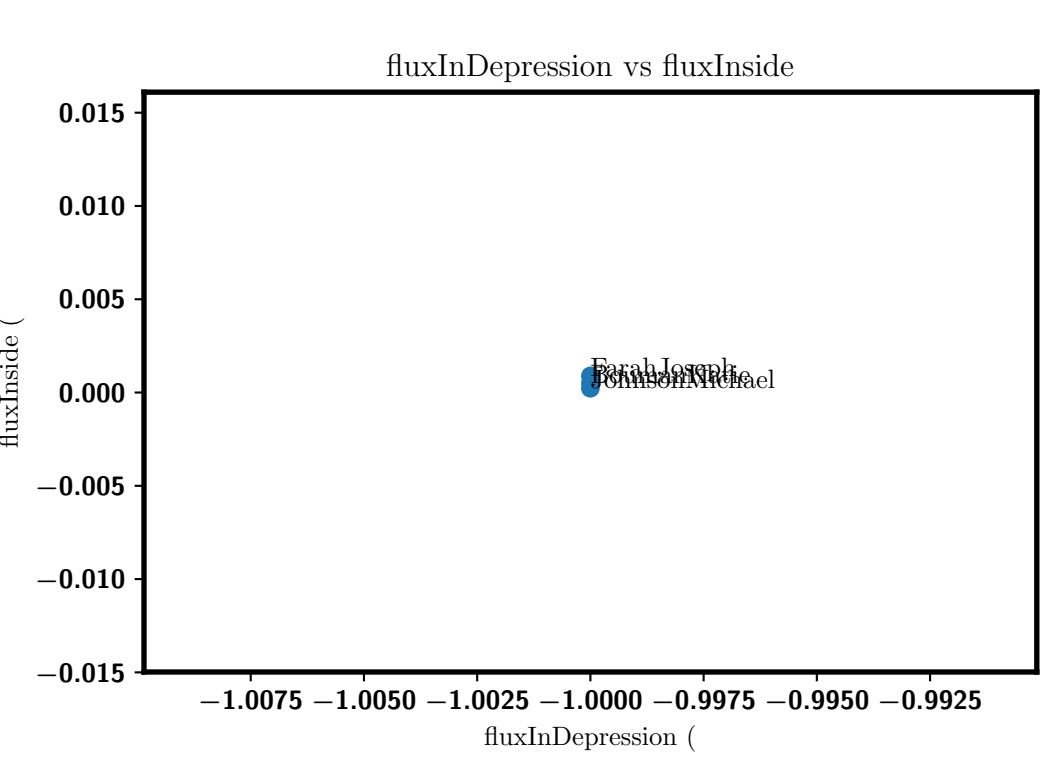

asymmetry vs radius
FarahJoseph
BoumanKatie
JohnsonMicha
radius (uas)
asymmetry (ratio)
9
8
7
6
5
4
0.5
1.0
1.5
2.0
2.5

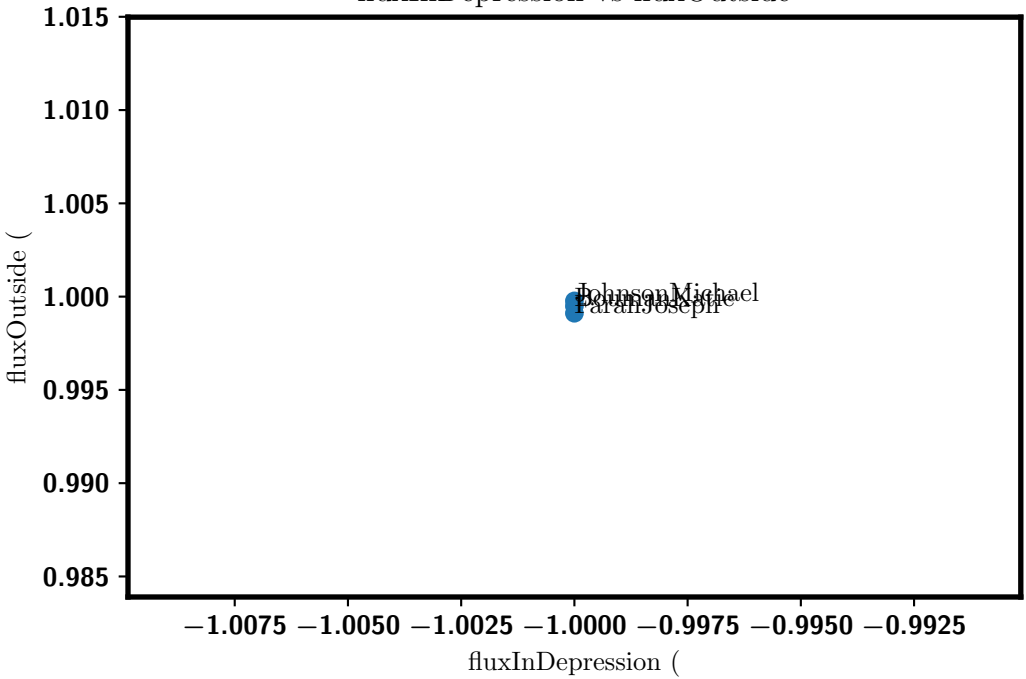

asymmetry vs sharpness
FarahJoseph
JohnsonMicha
BoumanKatie
sharpness (ratio)
625
600
575
550
525
500
475
0.5
1.0
1.5
2.0
2.5
asymmetry (ratio)

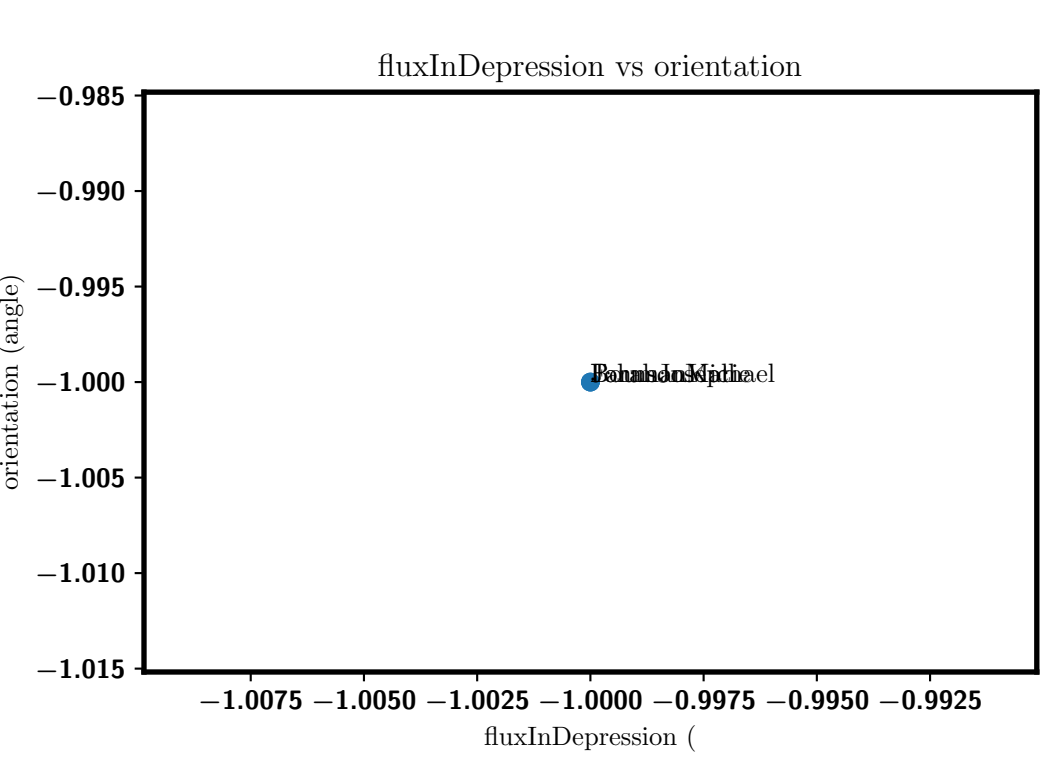

asymmetry vs width
FarahJoseph
BoumanKatie
JohnsonMicha
width (uas)
asymmetry (ratio)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.5
1.0
1.5
2.0
2.5

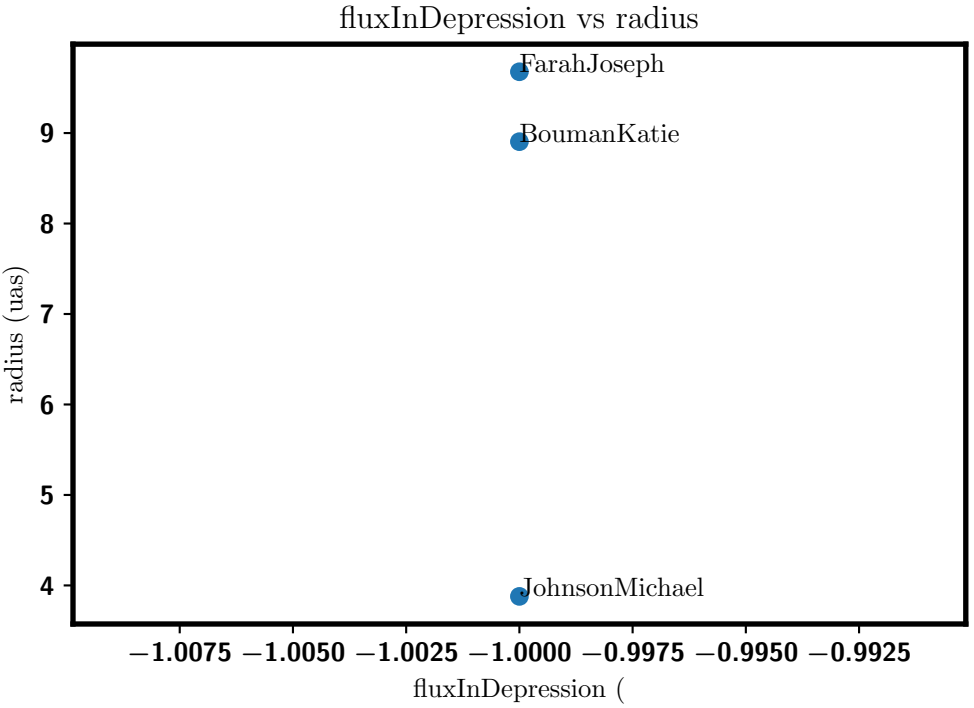

fluxInDepression vs asymmetry
2.5
2.0
1.5
1.0
0.5
asymmetry (ratio)
JohnsonMichael
FarahJoseph
BoumanKatie
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInDepression (

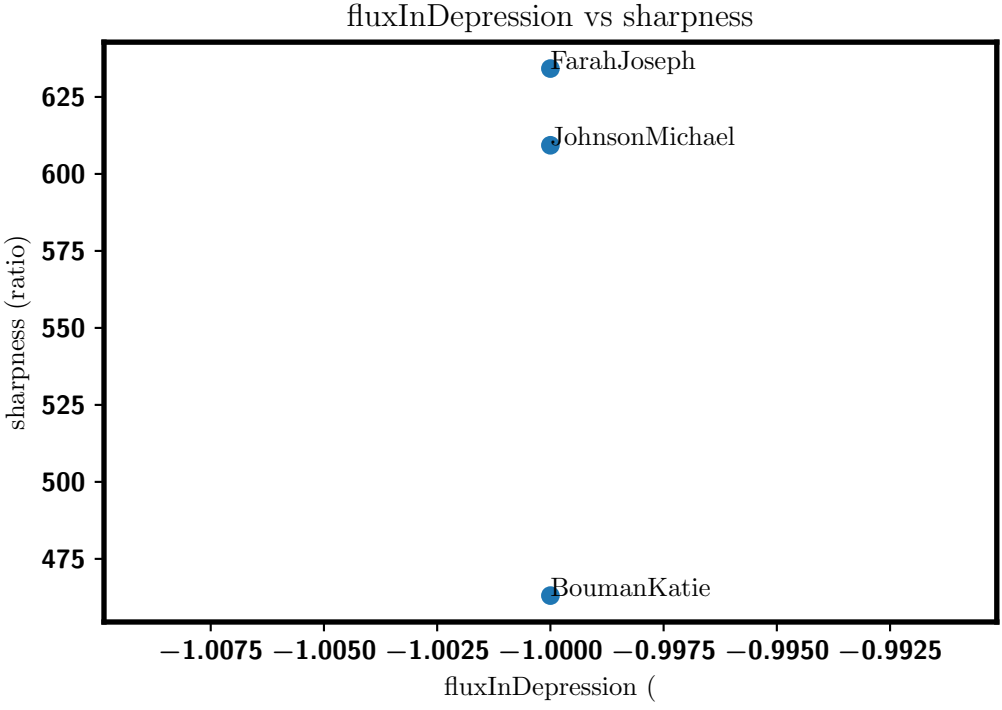

fluxInDepression vs fluxInRing
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInRing (
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInDepression (

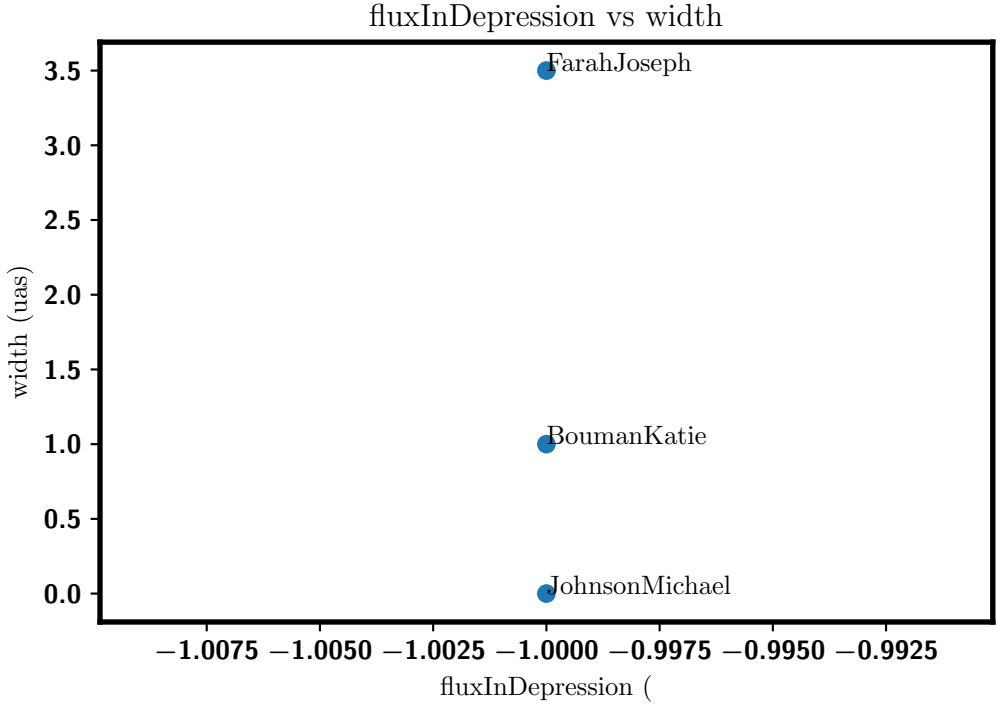

fluxInDepression vs fluxInside
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
fluxInside (
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInDepression (

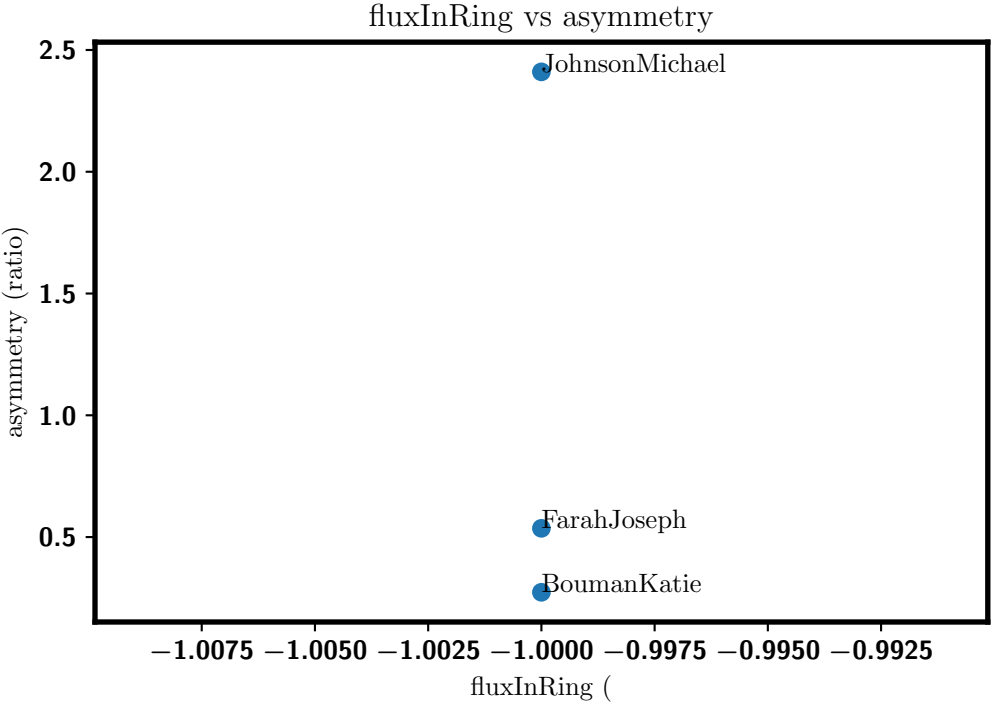

fluxInDepression vs fluxOutside
1.015
1.010
1.005
1.000
0.995
0.990
0.985
fluxOutside (
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInDepression (

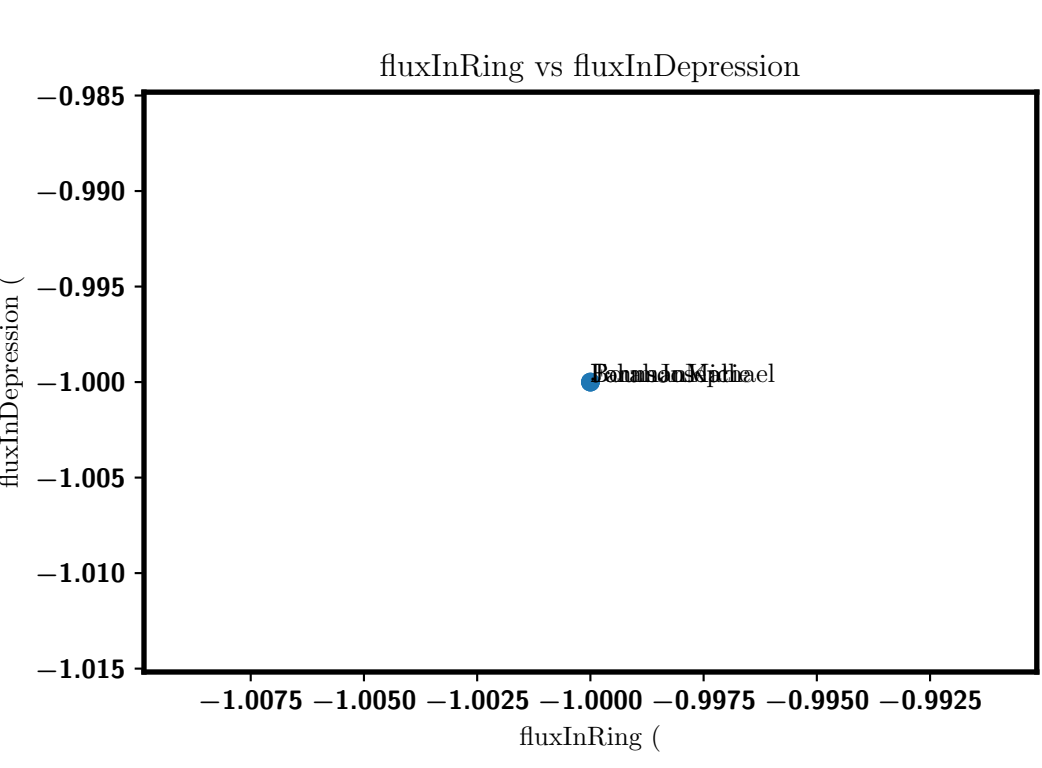

fluxInDepression vs orientation
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
orientation (angle)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInDepression (

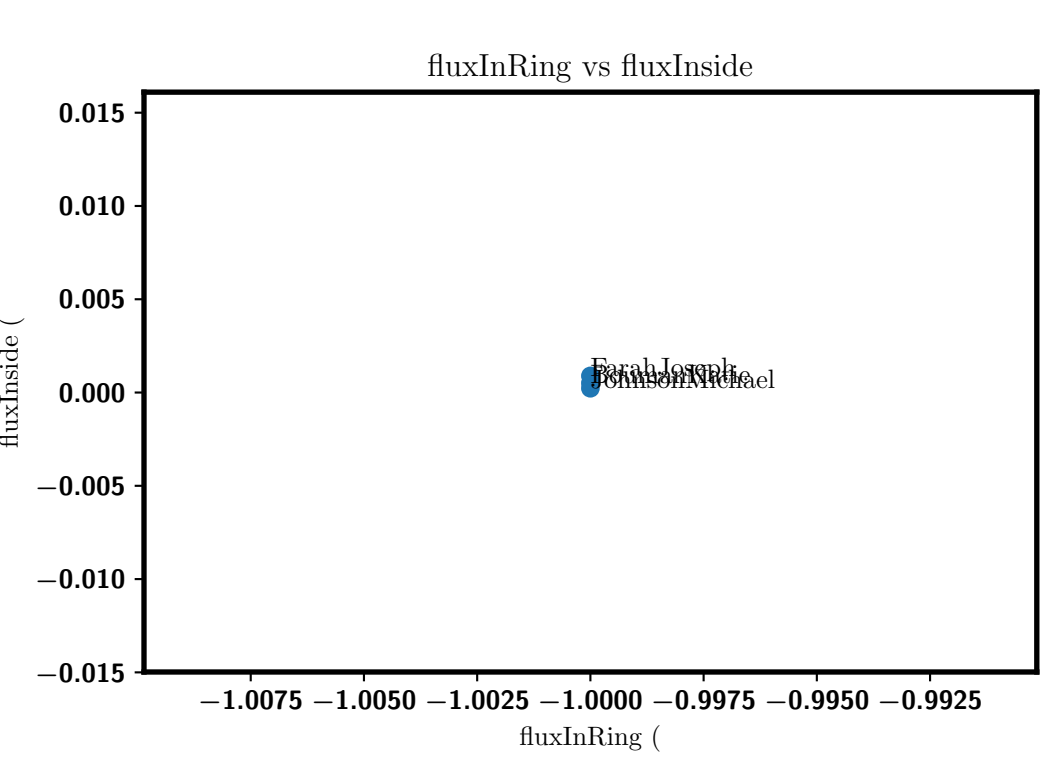

fluxInDepression vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
radius (uas)
9
8
7
6
5
4
−1.0075 −1.0050 −1.0025 −1.0000 −0.9975 −0.9950 −0.9925
fluxInDepression (

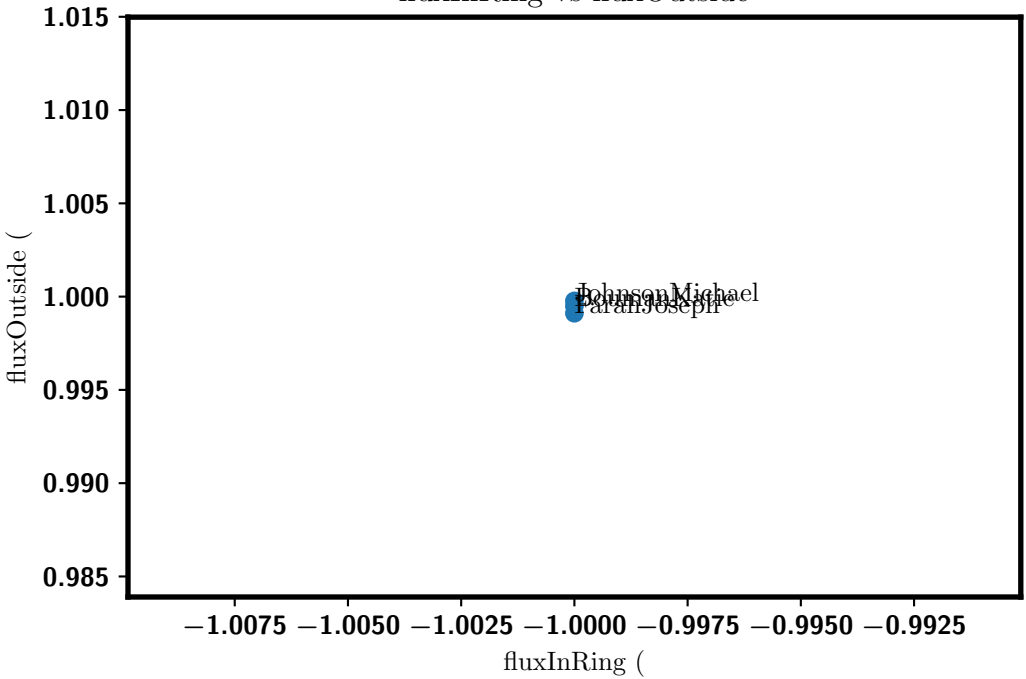

fluxInDepression vs sharpness
FarahJoseph
JohnsonMichael
BoumanKatie
625
600
575
550
525
500
475
sharpness (ratio)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInDepression (

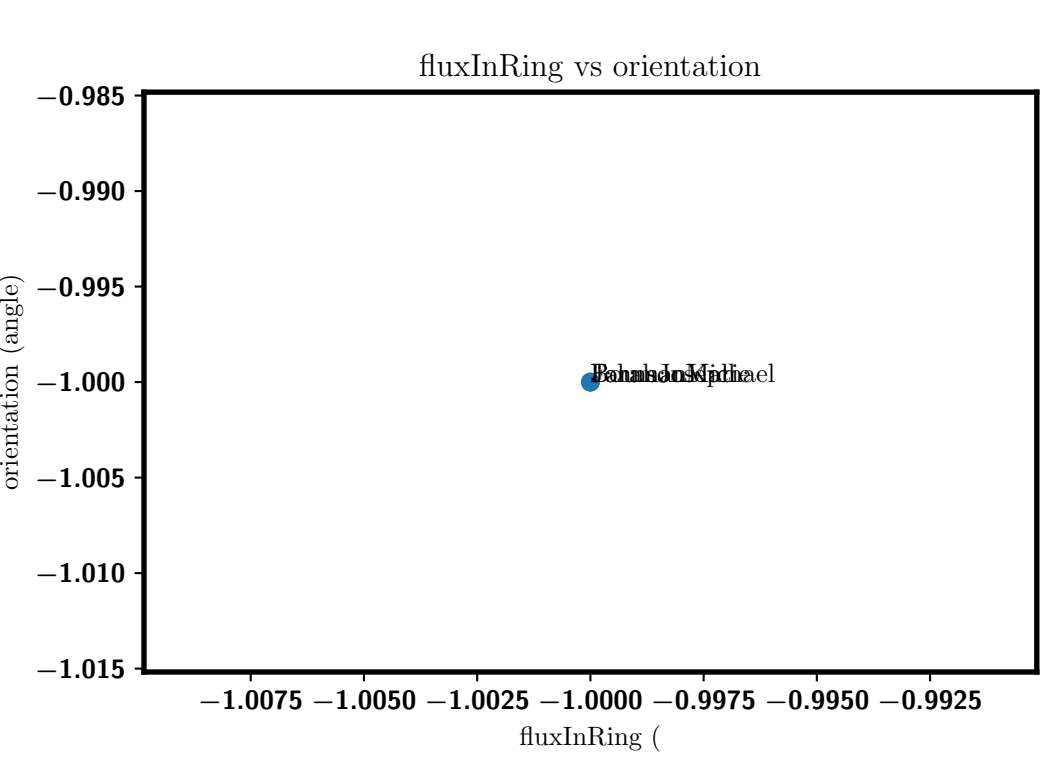

fluxInDepression vs width
FarahJoseph
BoumanKatie
JohnsonMichael
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
width (uas)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInDepression (

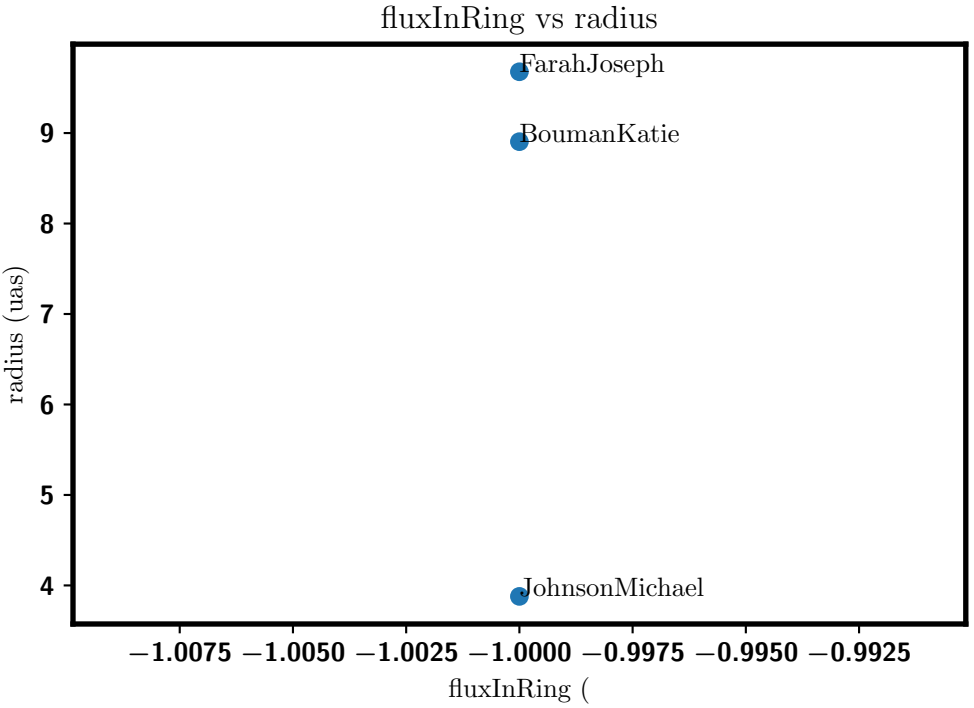

fluxInRing vs asymmetry
2.5
2.0
1.5
1.0
0.5
asymmetry (ratio)
JohnsonMichael
FarahJoseph
BoumanKatie
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInRing (

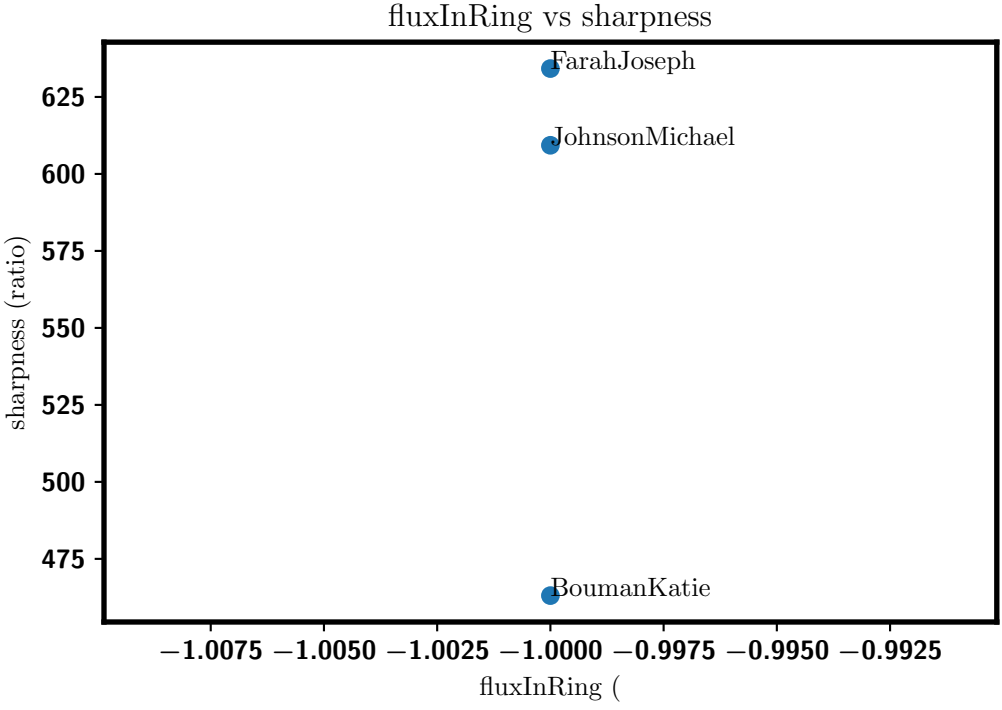

fluxInRing vs fluxInDepression
fluxInDepression (
fluxInRing (
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925

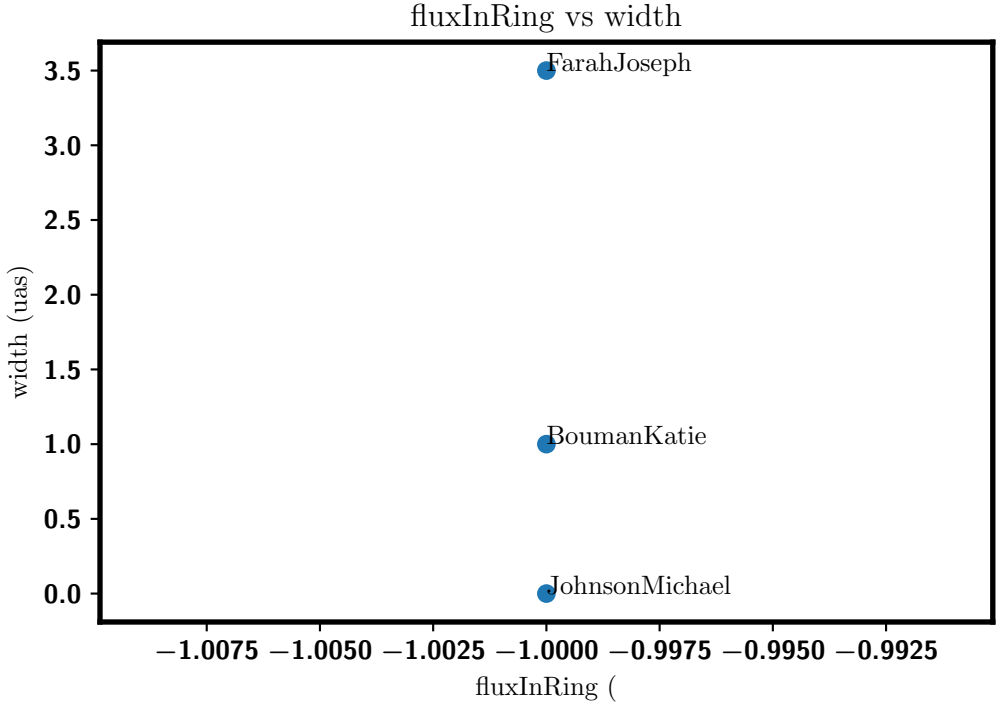

fluxInRing vs fluxInside
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
fluxInside (
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInRing (

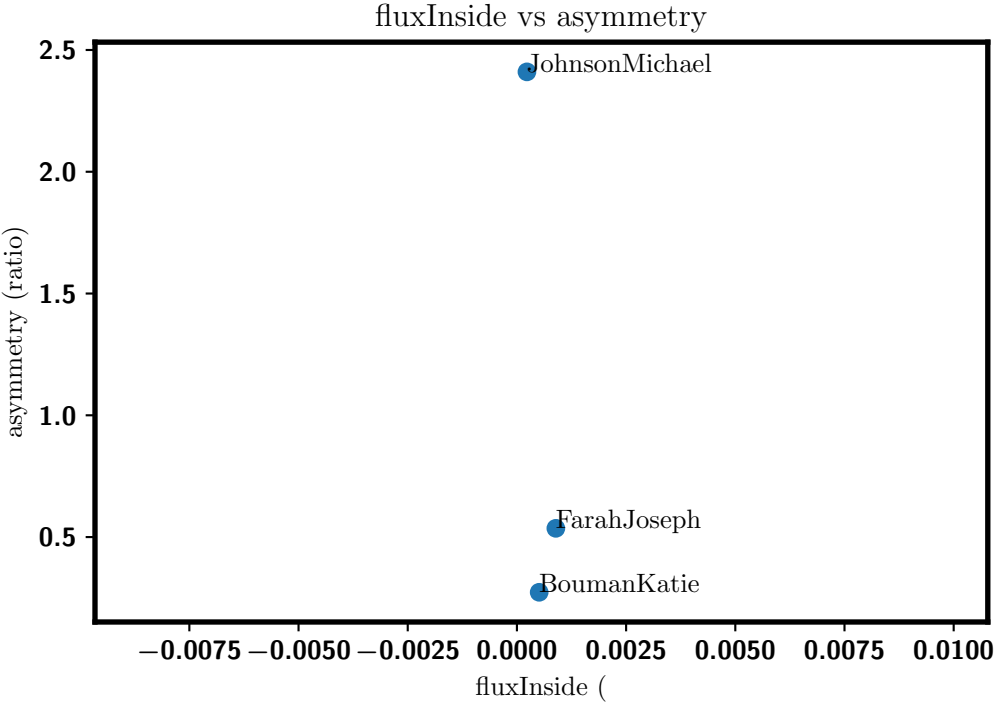

fluxInRing vs fluxOutside
1.015
1.010
1.005
1.000
0.995
0.990
0.985
fluxOutside (
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInRing (

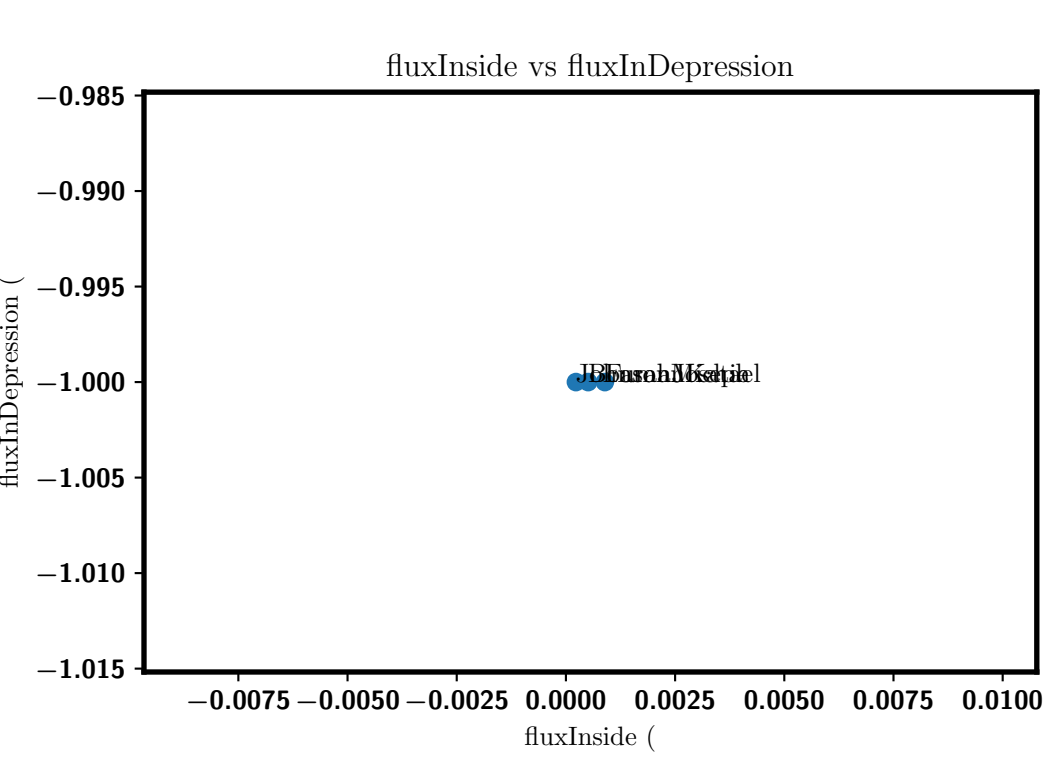

fluxInRing vs orientation
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
orientation (angle)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInRing (

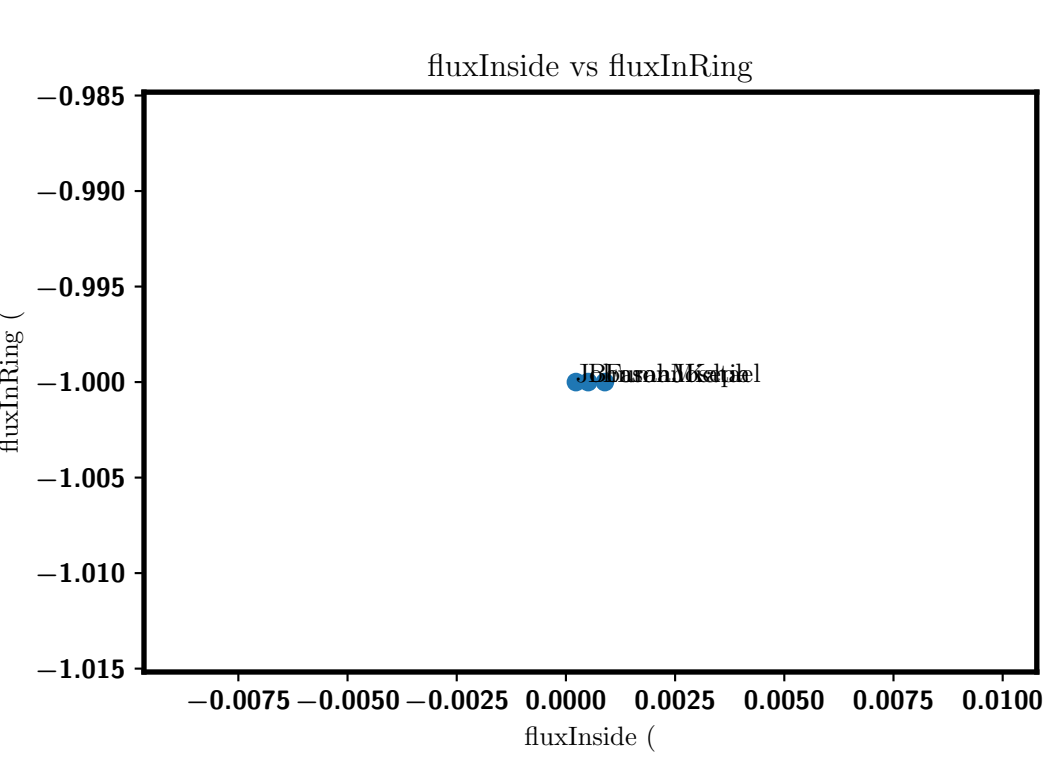

fluxInRing vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
radius (uas)
9
8
7
6
5
4
−1.0075 −1.0050 −1.0025 −1.0000 −0.9975 −0.9950 −0.9925
fluxInRing (

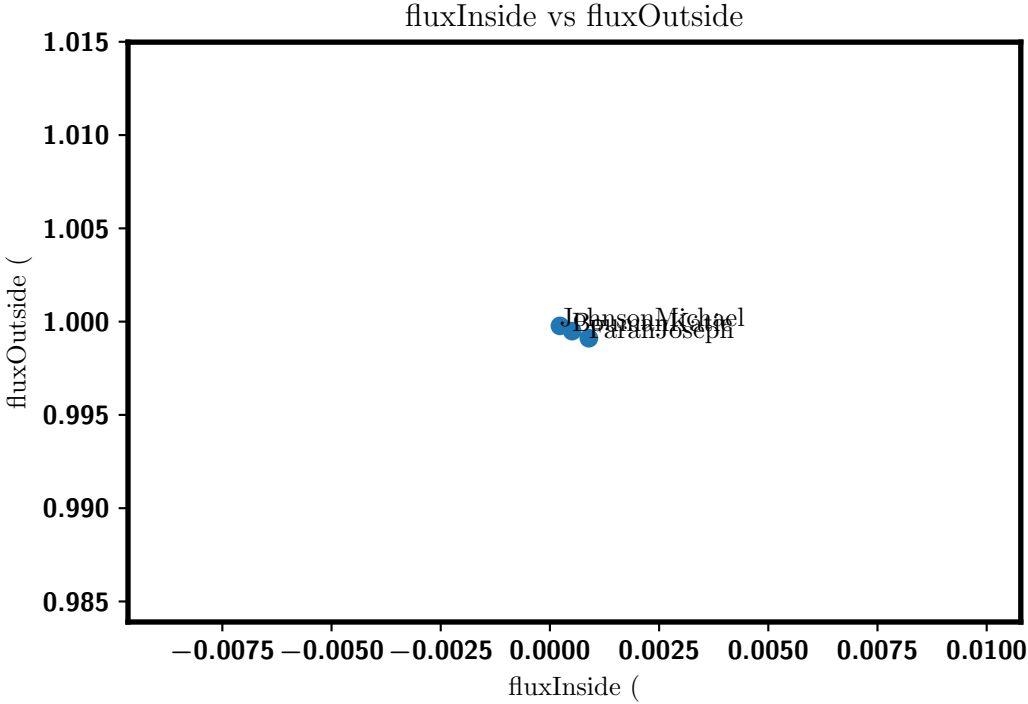

fluxInRing vs sharpness
FarahJoseph
JohnsonMichael
BoumanKatie
625
600
575
550
525
500
475
sharpness (ratio)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInRing (

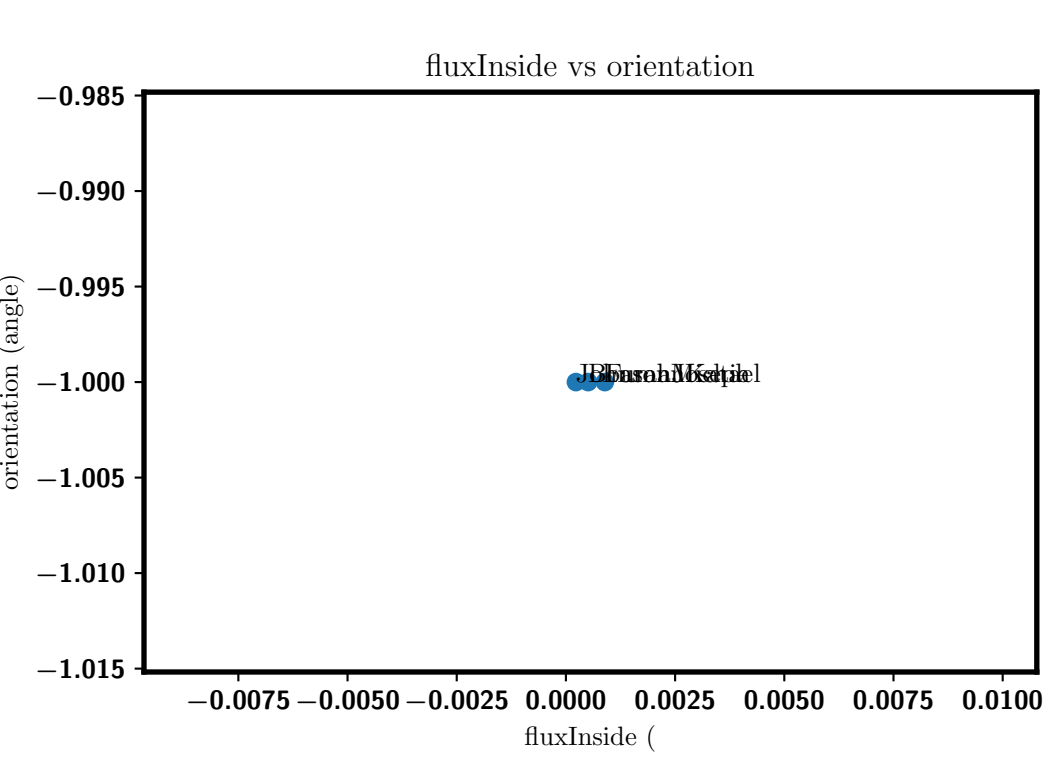

fluxInRing vs width
FarahJoseph
BoumanKatie
JohnsonMichael
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
width (uas)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
fluxInRing (

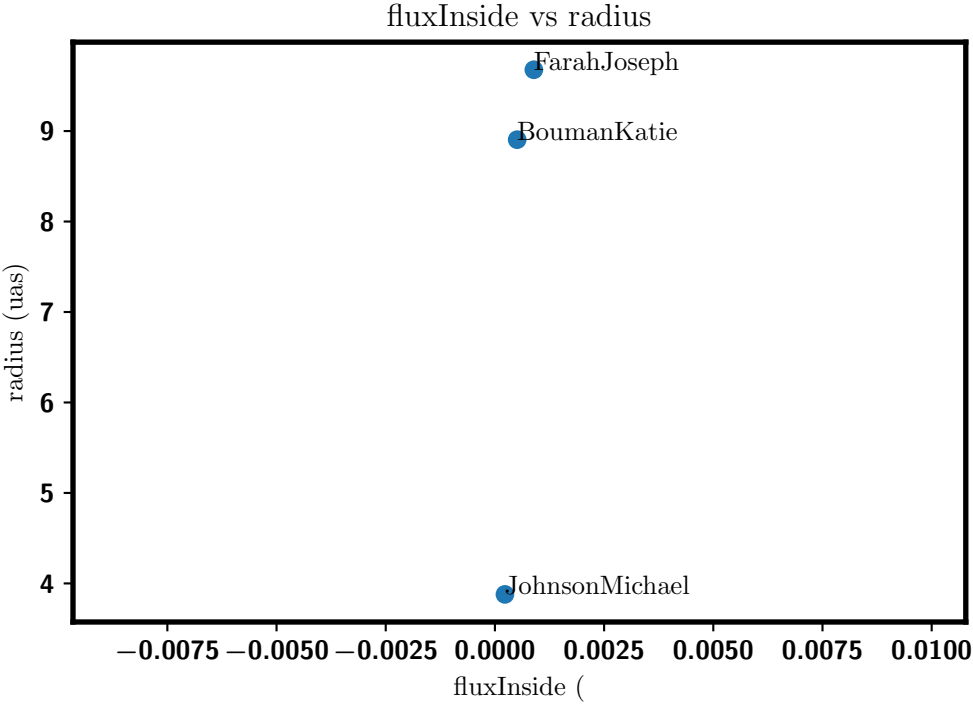

fluxInside vs asymmetry
2.5
2.0
1.5
1.0
0.5
asymmetry (ratio)
JohnsonMichael
FarahJoseph
BoumanKatie
−0.0075
−0.0050
−0.0025
0.0000
0.0025
0.0050
0.0075
0.0100
fluxInside (

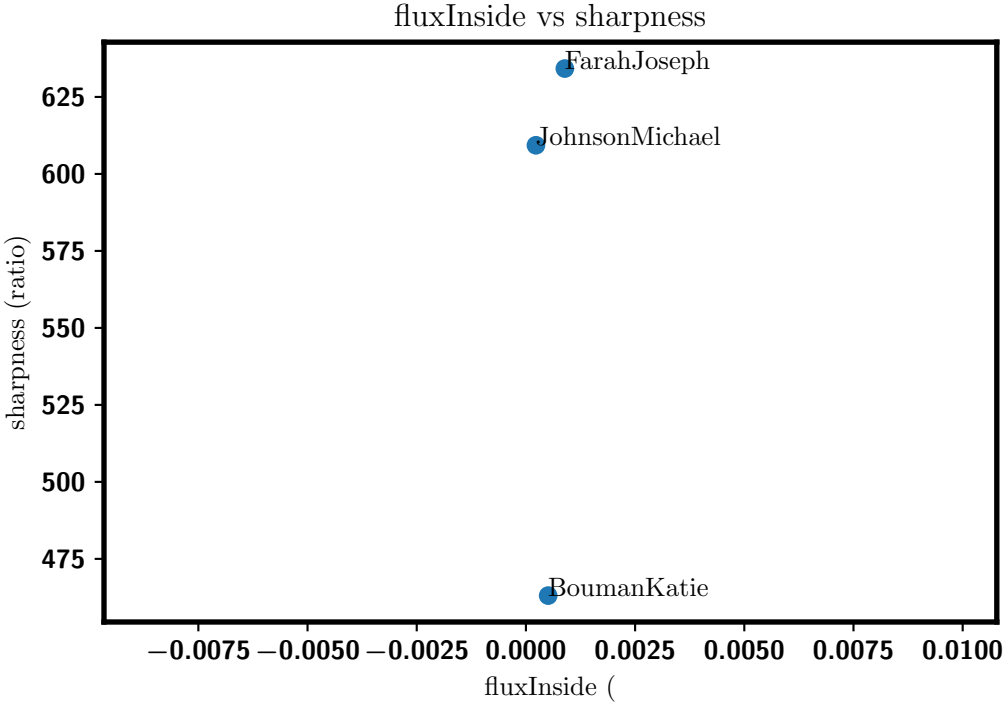

fluxInside vs fluxInDepression
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInDepression (
−0.0075
−0.0050
−0.0025
0.0000
0.0025
0.0050
0.0075
0.0100
fluxInside (

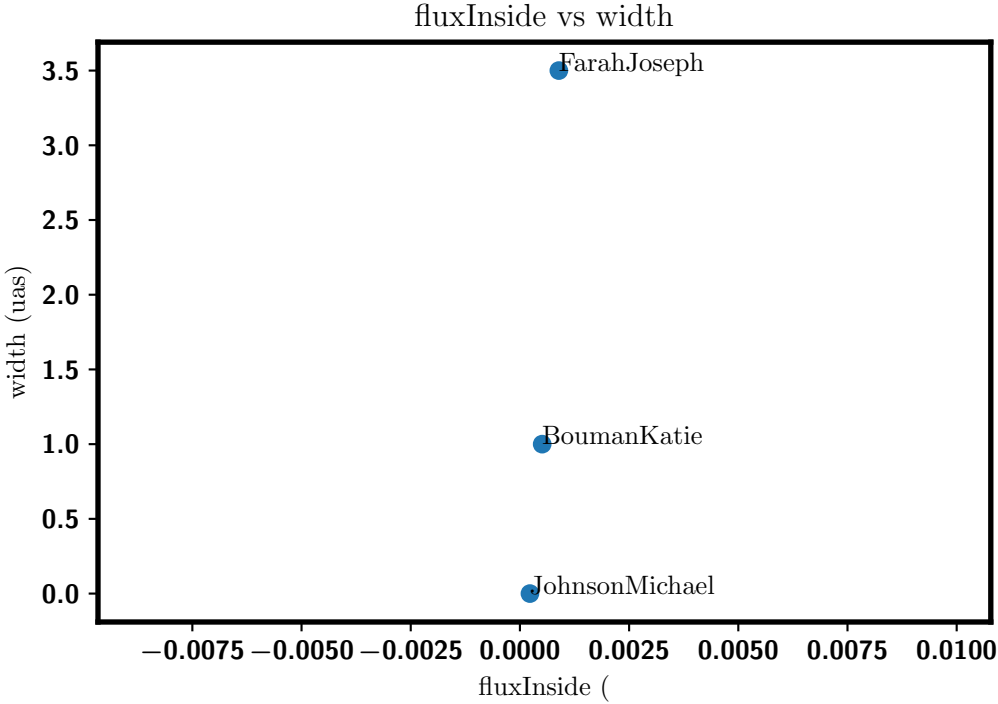

fluxInside vs fluxInRing
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInRing (
−0.0075
−0.0050
−0.0025
0.0000
0.0025
0.0050
0.0075
0.0100
fluxInside (

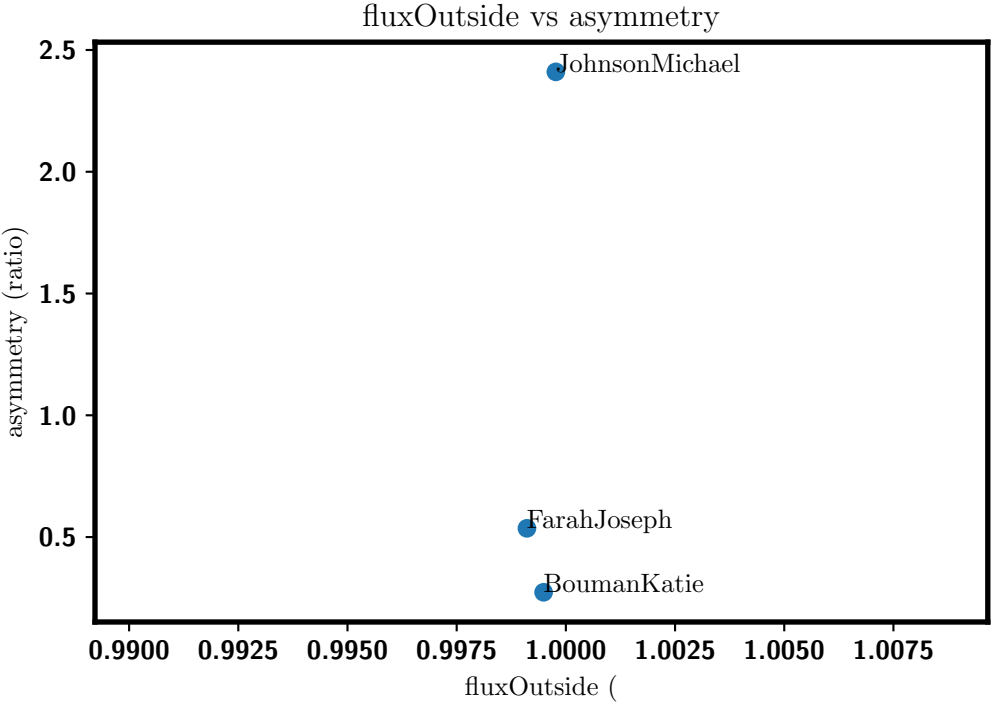

fluxInside vs fluxOutside
1.015
1.010
1.005
1.000
0.995
0.990
0.985
fluxOutside (
−0.0075
−0.0050
−0.0025
0.0000
0.0025
0.0050
0.0075
0.0100
fluxInside (
JohnsonMichael
TaraniJoseph

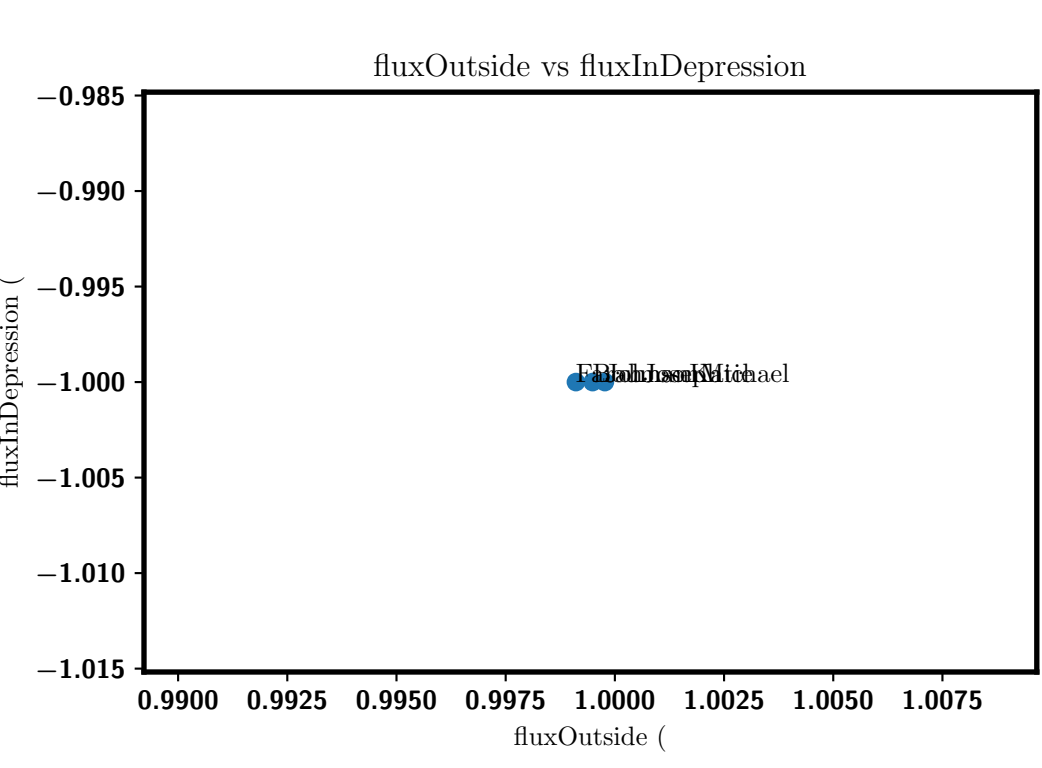

fluxInside vs orientation
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
orientation (angle)
−0.0075
−0.0050
−0.0025
0.0000
0.0025
0.0050
0.0075
0.0100
fluxInside (

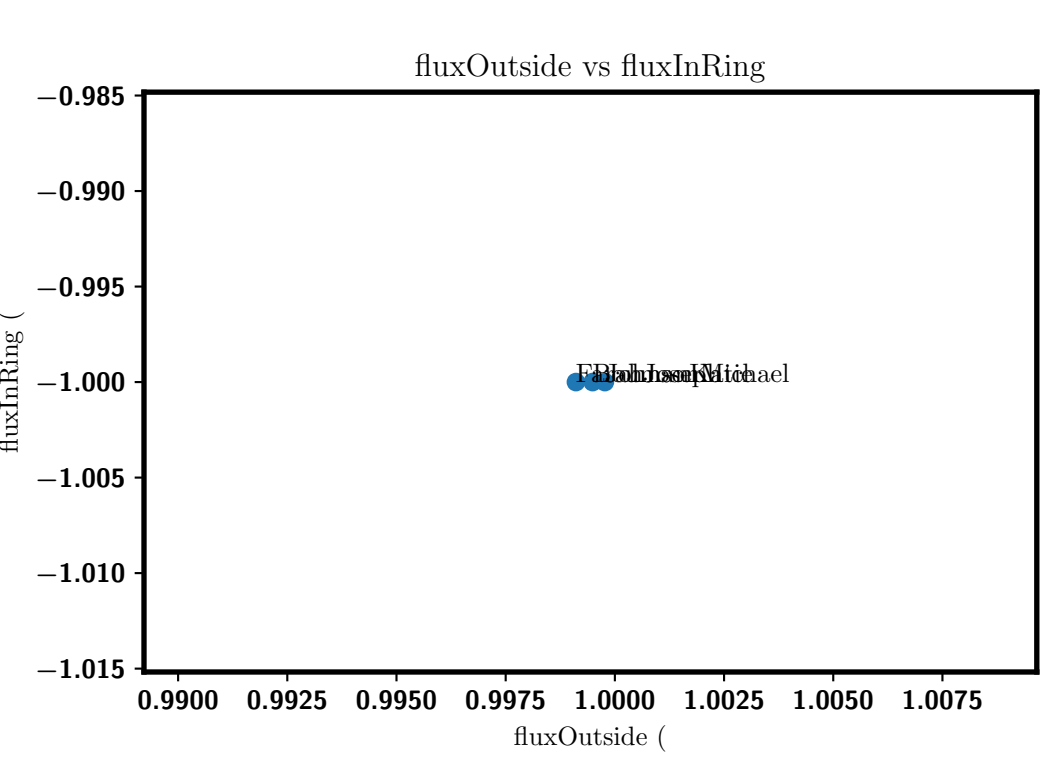

fluxInside vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
radius (uas)
9
8
7
6
5
4
−0.0075
−0.0050
−0.0025
0.0000
0.0025
0.0050
0.0075
0.0100
fluxInside (

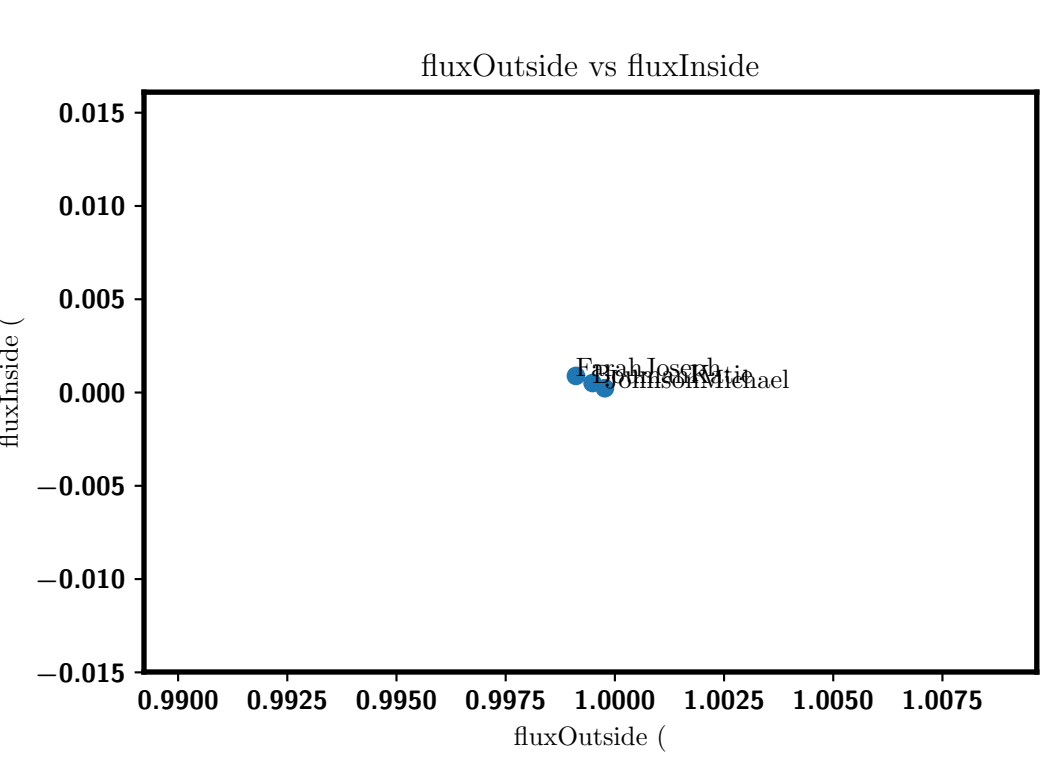

fluxInside vs sharpness
FarahJoseph
JohnsonMichael
BoumanKatie
sharpness (ratio)
625
600
575
550
525
500
475
−0.0075
−0.0050
−0.0025
0.0000
0.0025
0.0050
0.0075
0.0100
fluxInside (

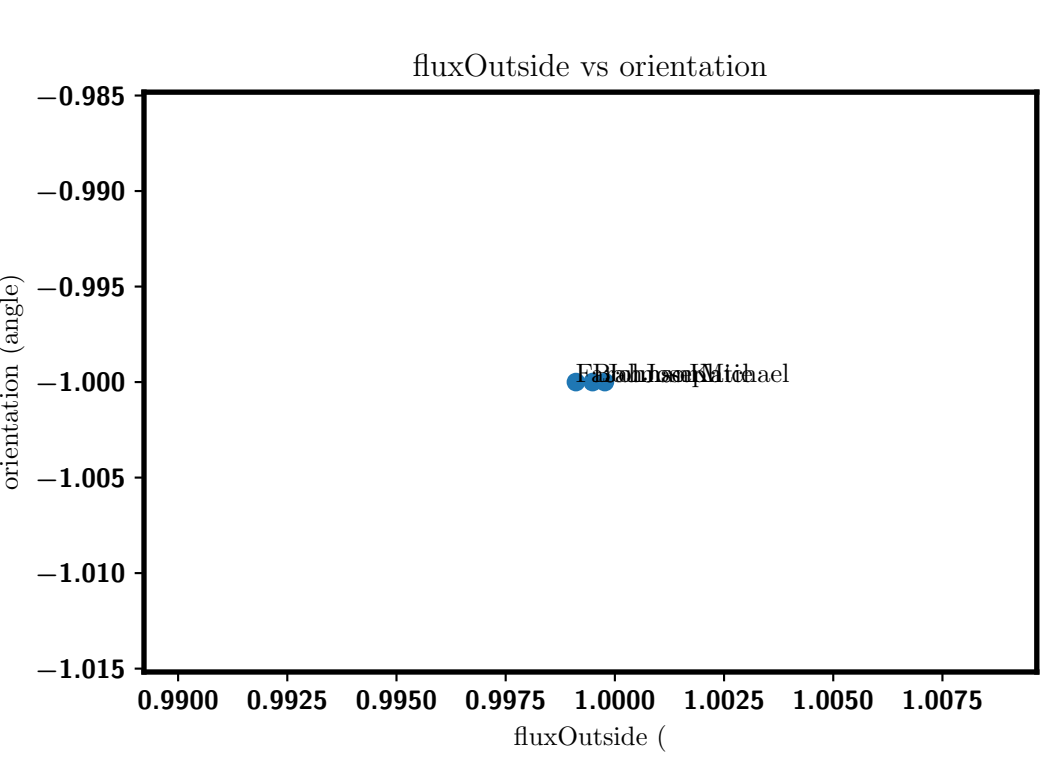

fluxInside vs width
FarahJoseph
BoumanKatie
JohnsonMichael
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
width (uas)
−0.0075
−0.0050
−0.0025
0.0000
0.0025
0.0050
0.0075
0.0100
fluxInside (

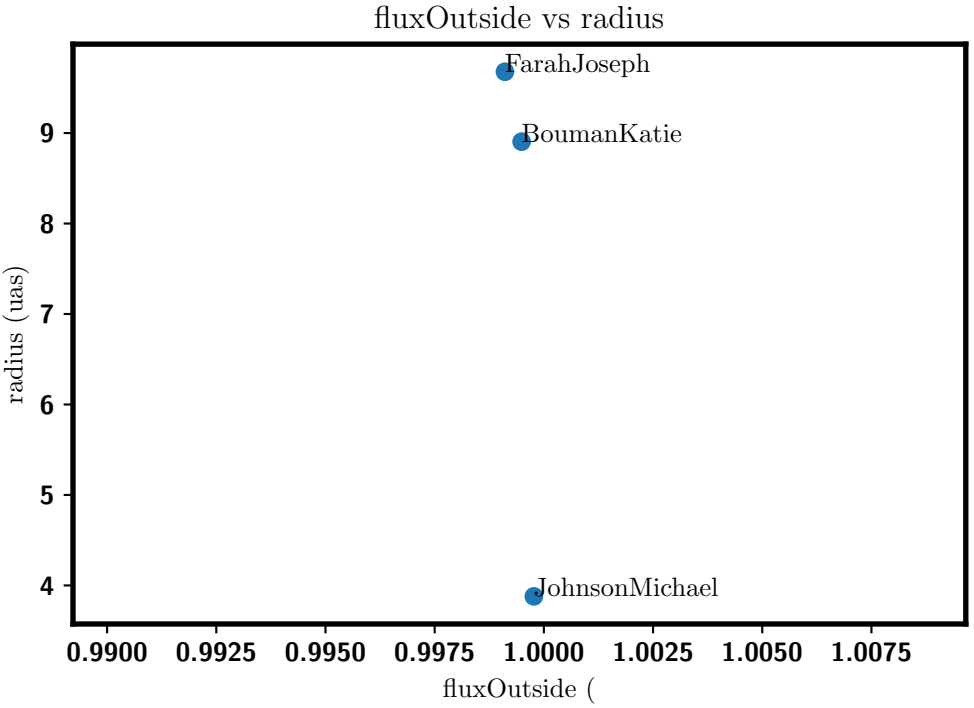

fluxOutside vs asymmetry
2.5
2.0
1.5
1.0
0.5
asymmetry (ratio)
JohnsonMichael
FarahJoseph
BoumanKatie
0.9900
0.9925
0.9950
0.9975
1.0000
1.0025
1.0050
1.0075
fluxOutside (

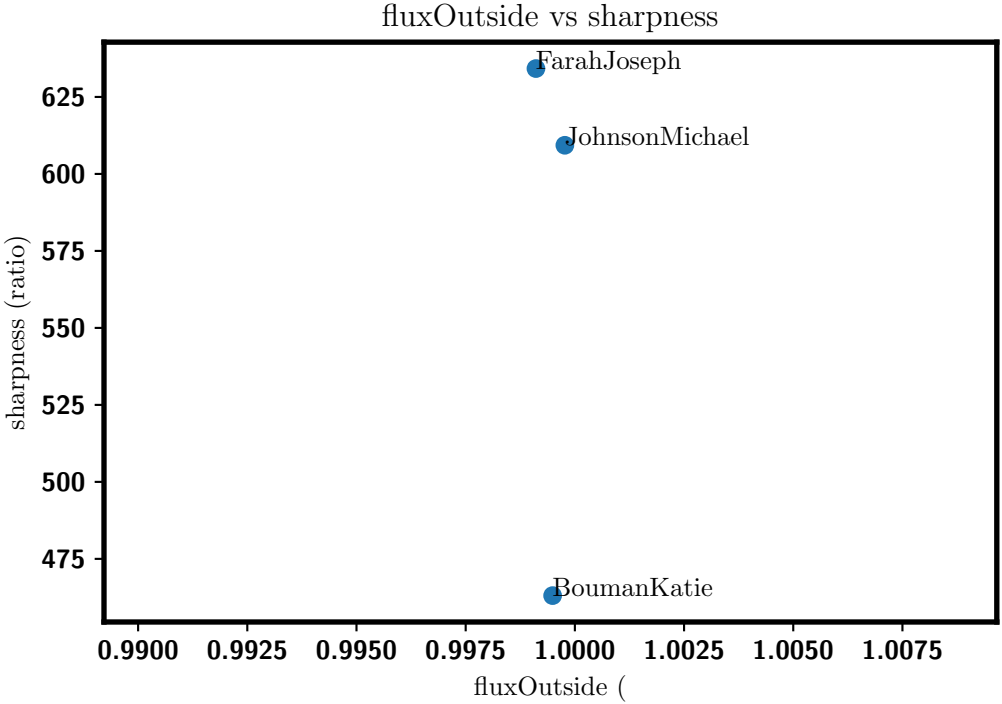

fluxOutside vs fluxInDepression
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInDepression (
0.9900
0.9925
0.9950
0.9975
1.0000
1.0025
1.0050
1.0075
fluxOutside (

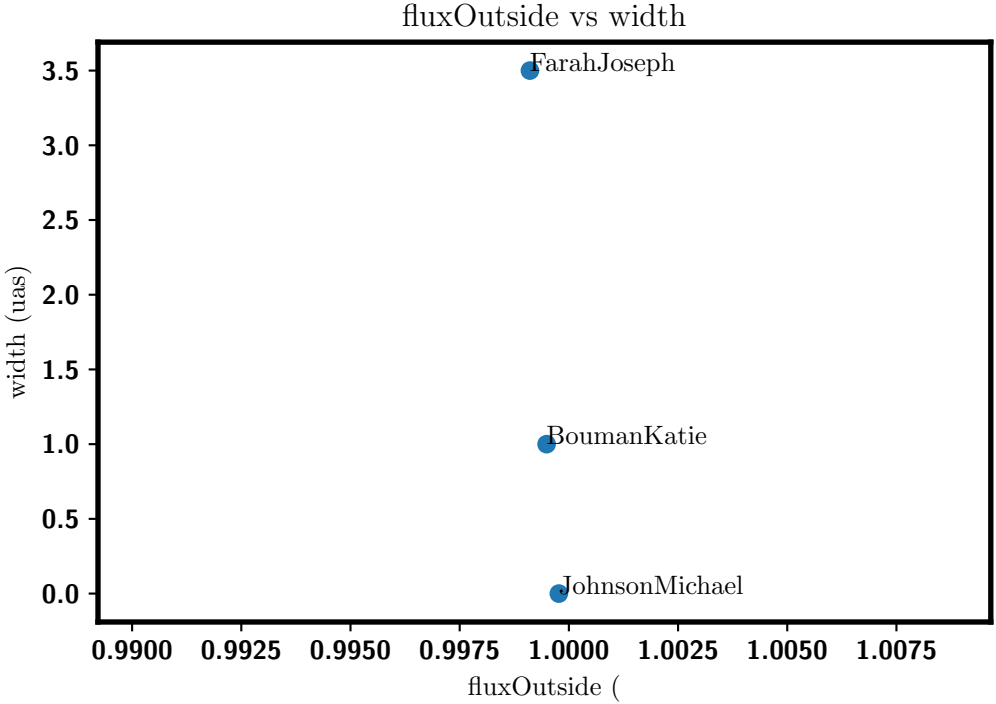

fluxOutside vs fluxInRing
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInRing (
0.9900
0.9925
0.9950
0.9975
1.0000
1.0025
1.0050
1.0075
fluxOutside (

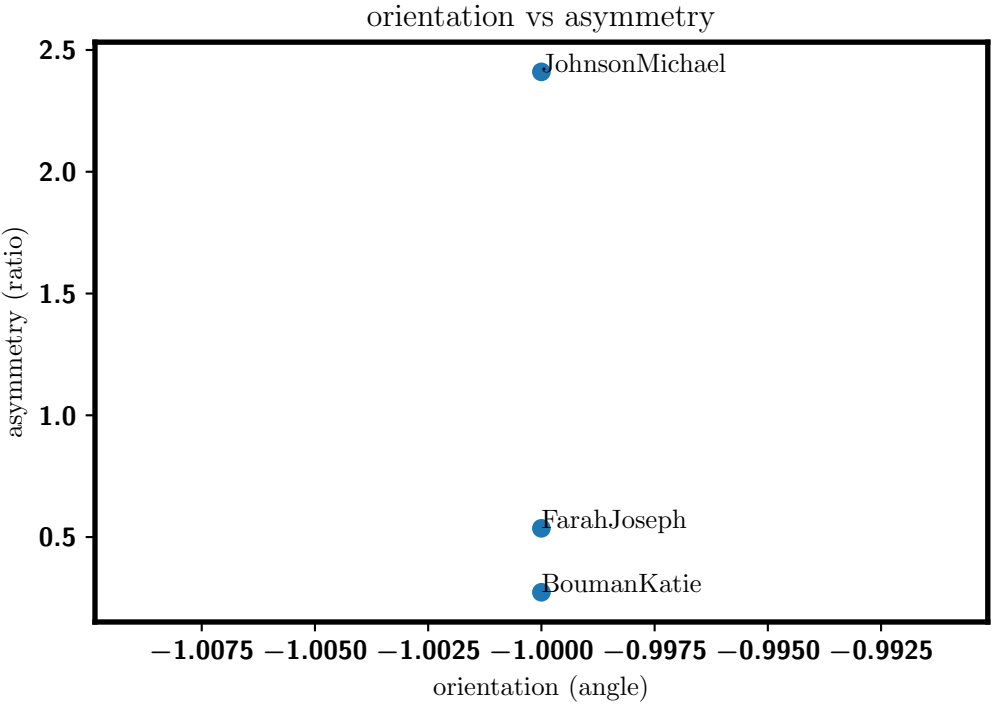

fluxOutside vs fluxInside
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
fluxInside (
0.9900
0.9925
0.9950
0.9975
1.0000
1.0025
1.0050
1.0075
fluxOutside (

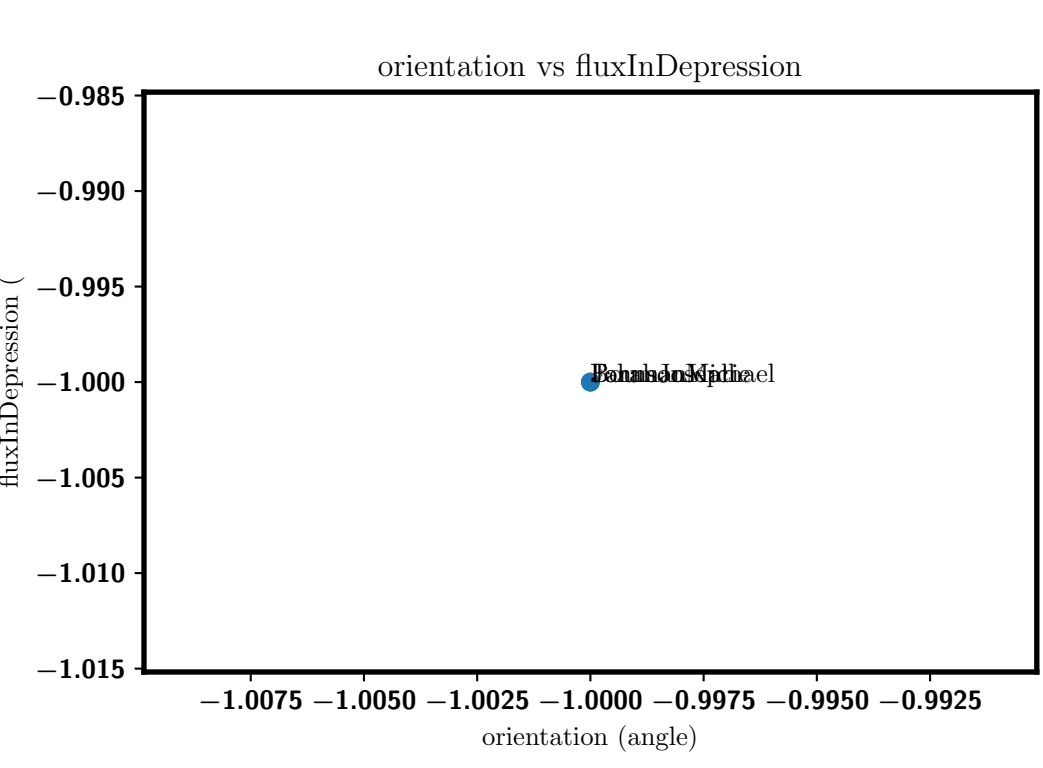

fluxOutside vs orientation
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
orientation (angle)
0.9900
0.9925
0.9950
0.9975
1.0000
1.0025
1.0050
1.0075
fluxOutside (

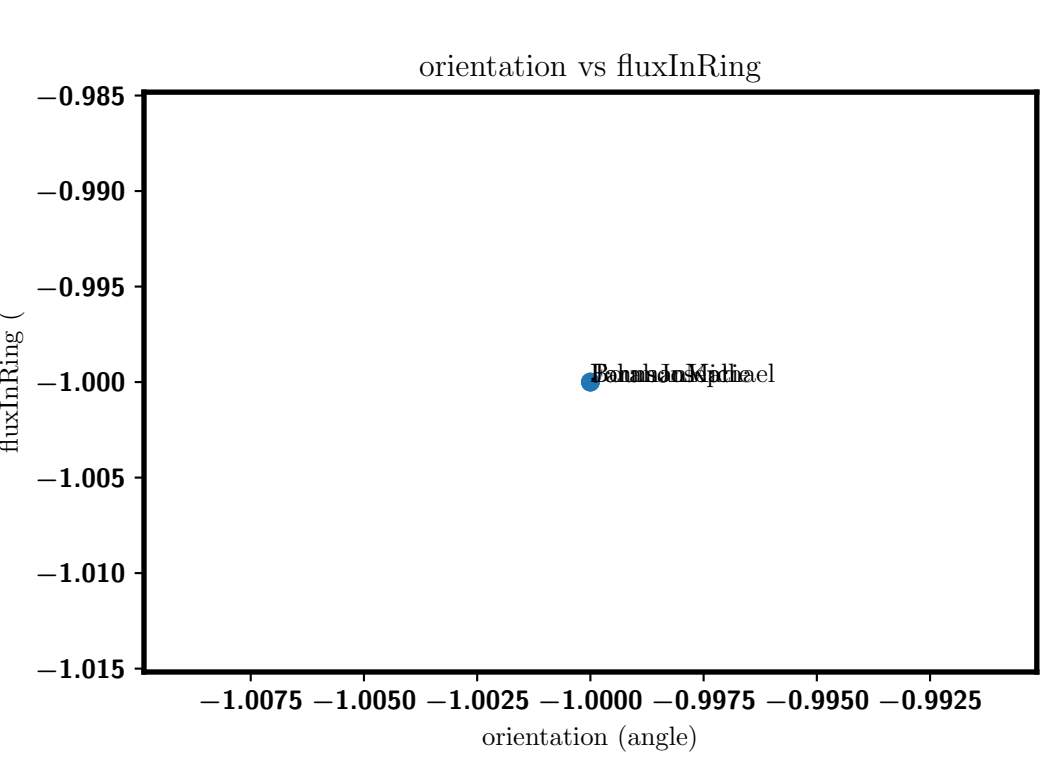

fluxOutside vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
radius (uas)
9
8
7
6
5
4
0.9900
0.9925
0.9950
0.9975
1.0000
1.0025
1.0050
1.0075
fluxOutside (

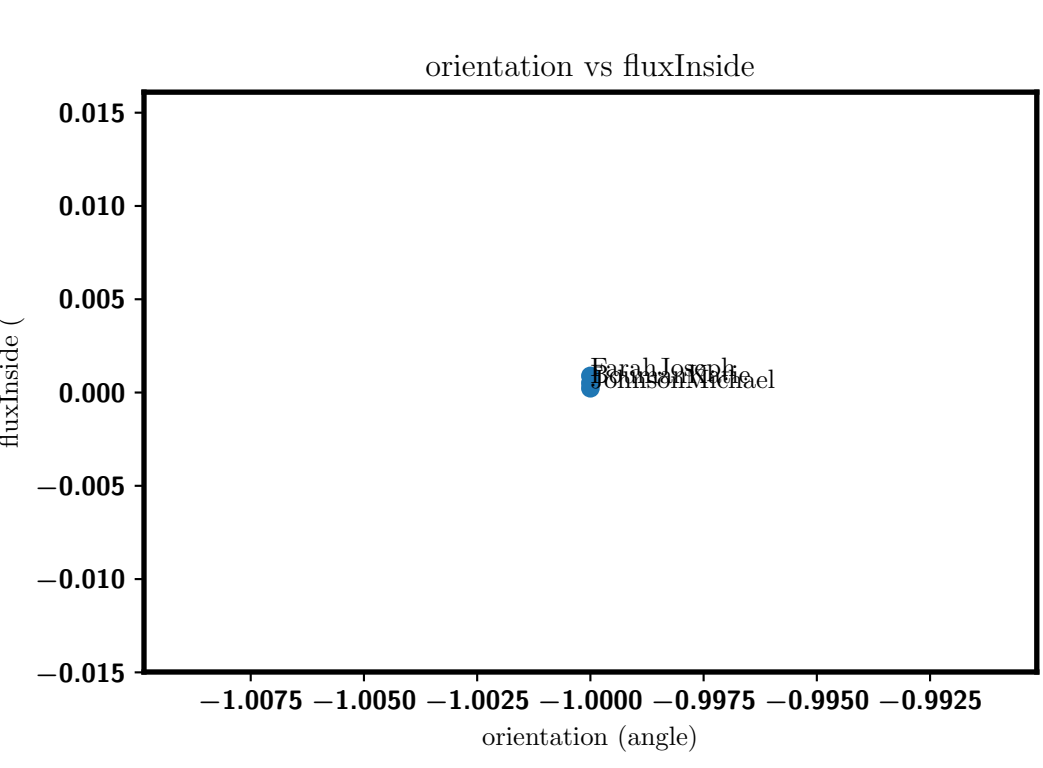

fluxOutside vs sharpness
FarahJoseph
JohnsonMichael
BoumanKatie
625
600
575
550
525
500
475
sharpness (ratio)
0.9900
0.9925
0.9950
0.9975
1.0000
1.0025
1.0050
1.0075
fluxOutside (

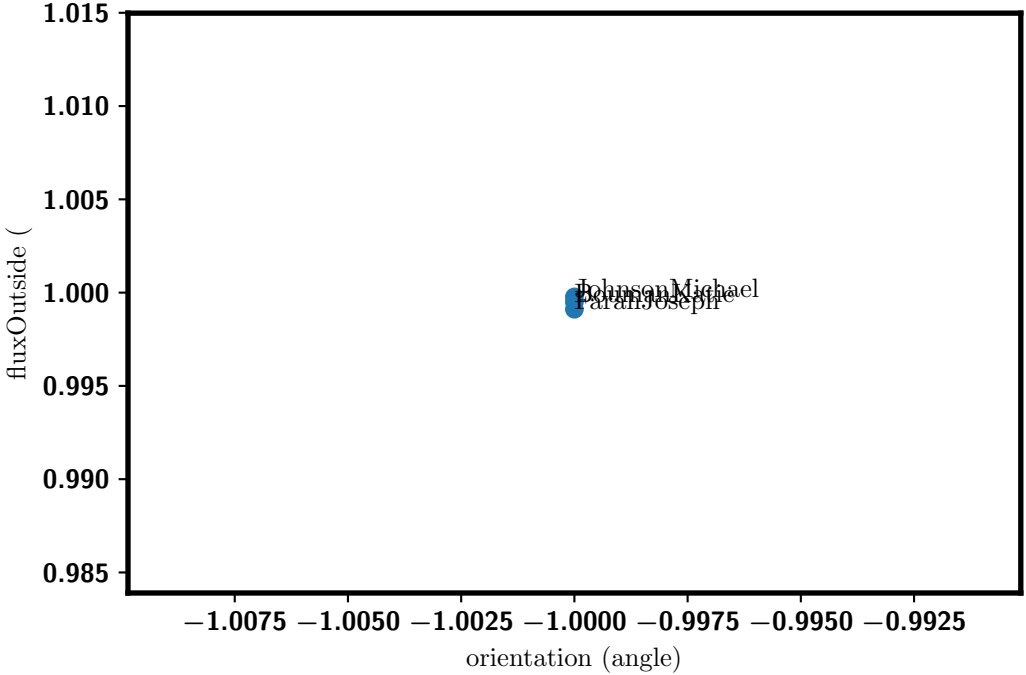

fluxOutside vs width
FarahJoseph
BoumanKatie
JohnsonMichael
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
width (uas)
0.9900
0.9925
0.9950
0.9975
1.0000
1.0025
1.0050
1.0075
fluxOutside (

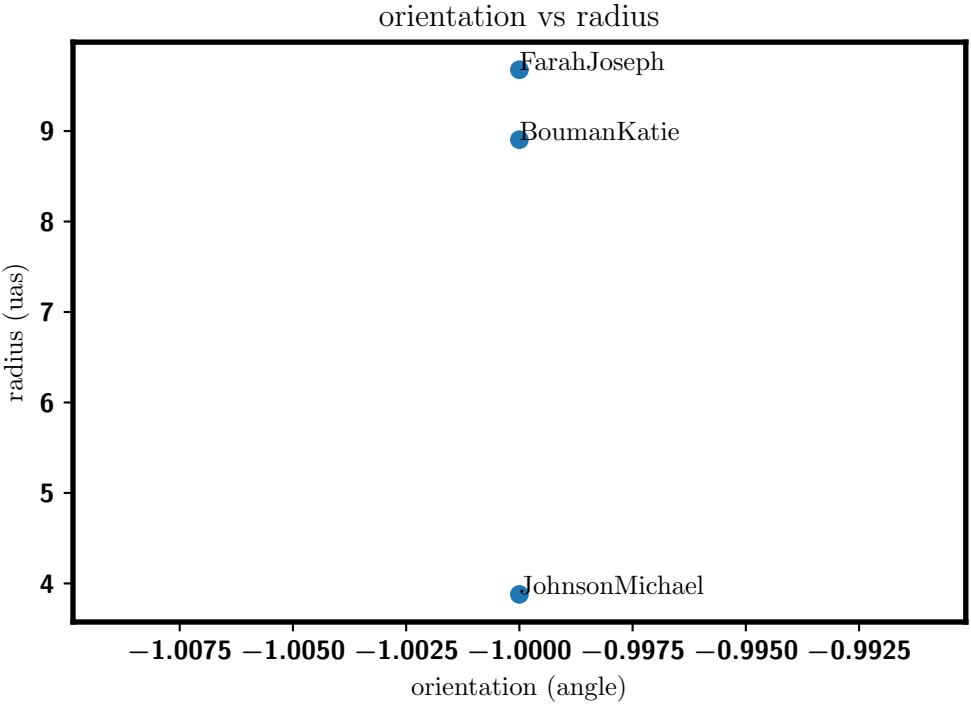

orientation vs asymmetry
JohnsonMichael
FarahJoseph
BoumanKatie
2.5
2.0
1.5
1.0
0.5
asymmetry (ratio)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
orientation (angle)

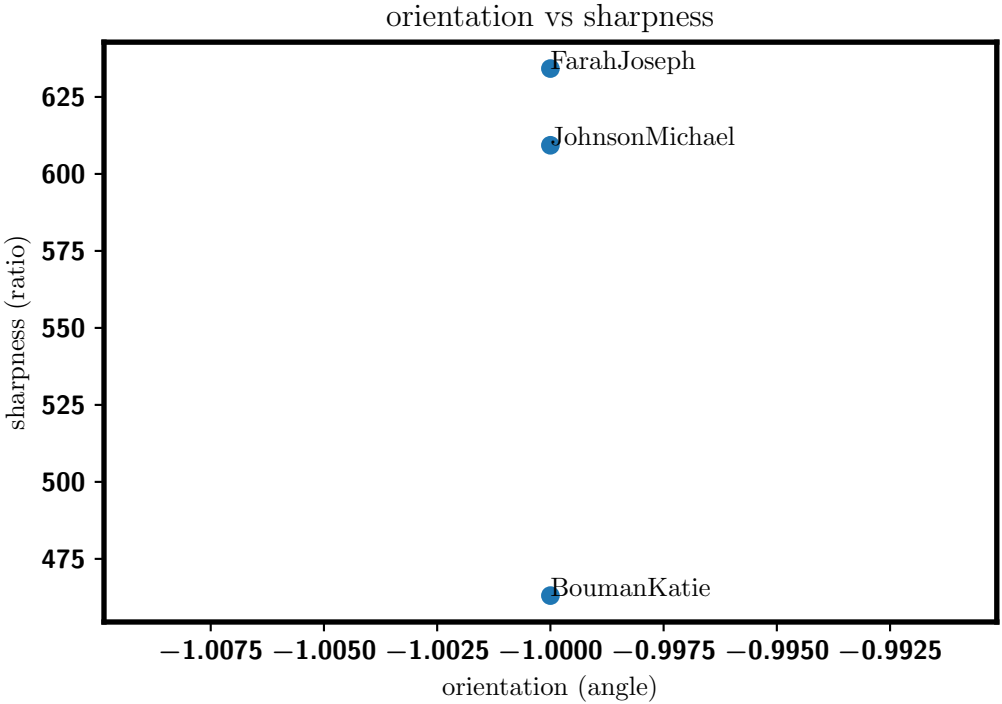

orientation vs fluxInDepression
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInDepression (
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
orientation (angle)

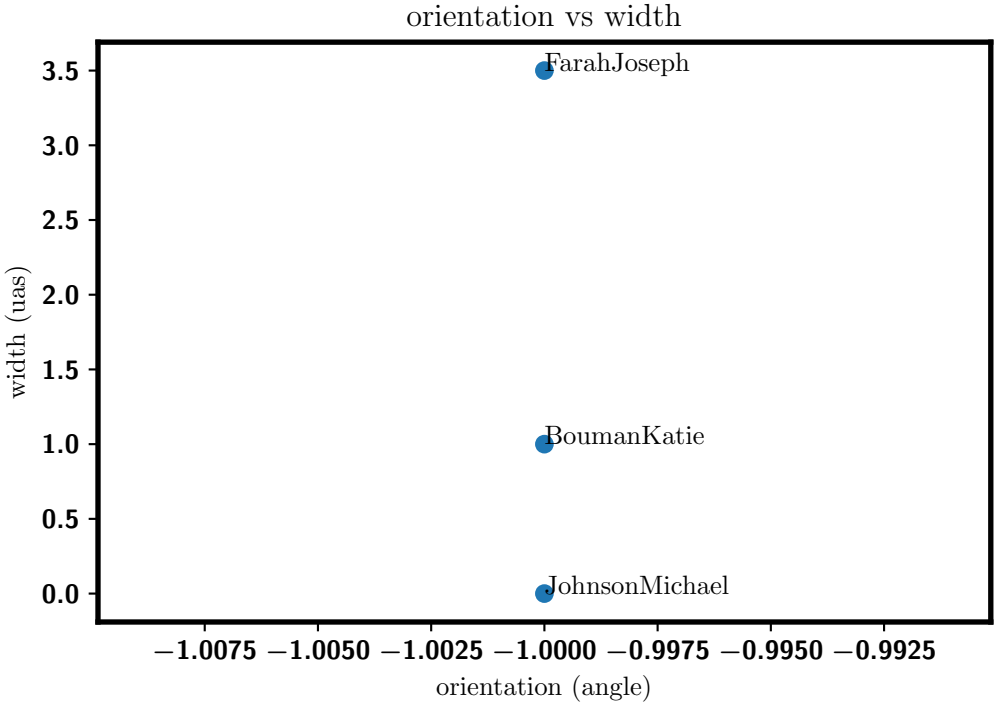

orientation vs fluxInRing
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInRing (
−1.0075 −1.0050 −1.0025 −1.0000 −0.9975 −0.9950 −0.9925
orientation (angle)

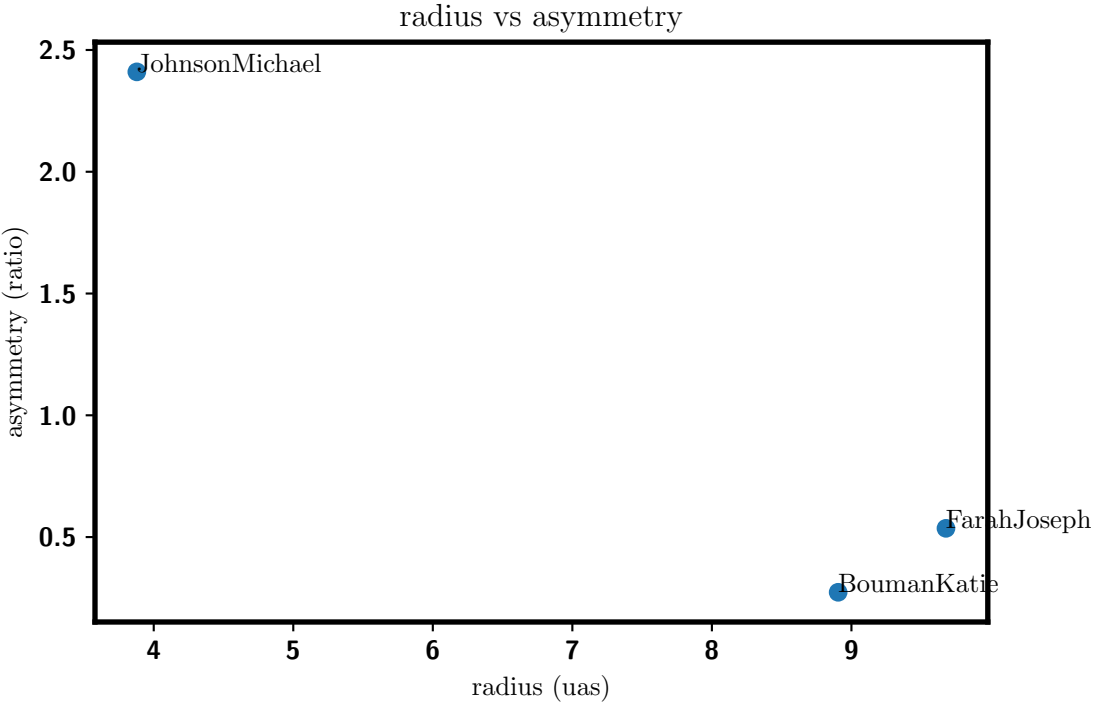

orientation vs fluxInside
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
fluxInside (
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
orientation (angle)

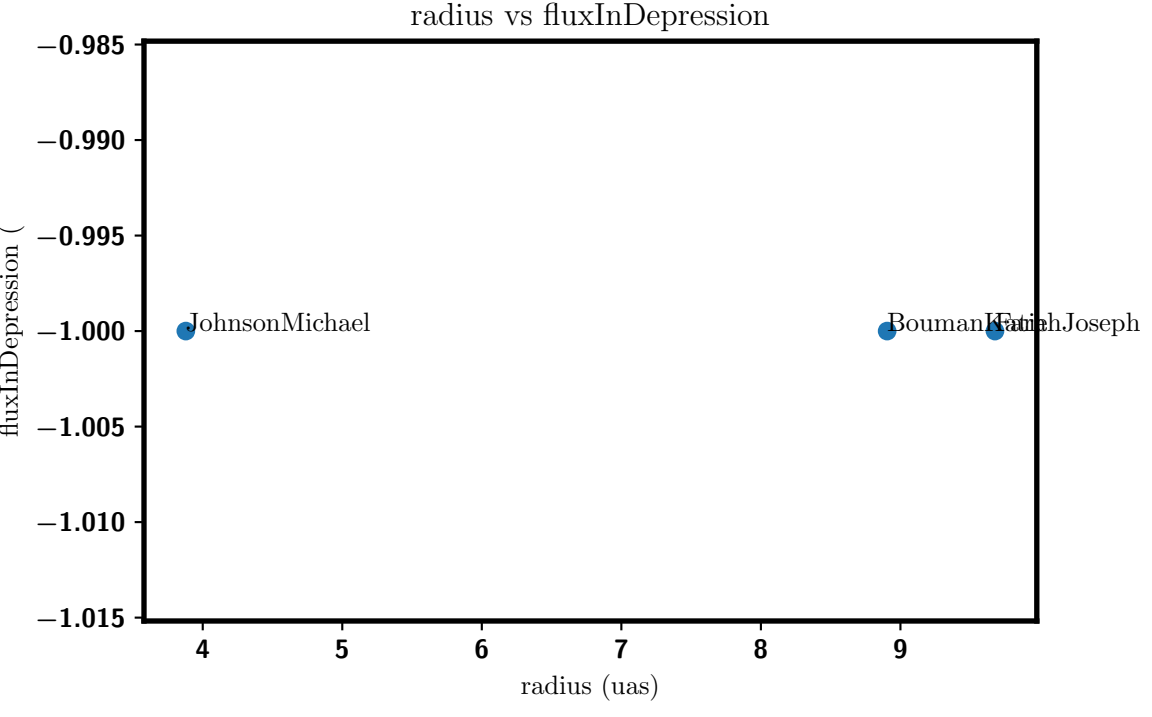

orientation vs fluxOutside
1.015
1.010
1.005
1.000
0.995
0.990
0.985
fluxOutside (
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
orientation (angle)

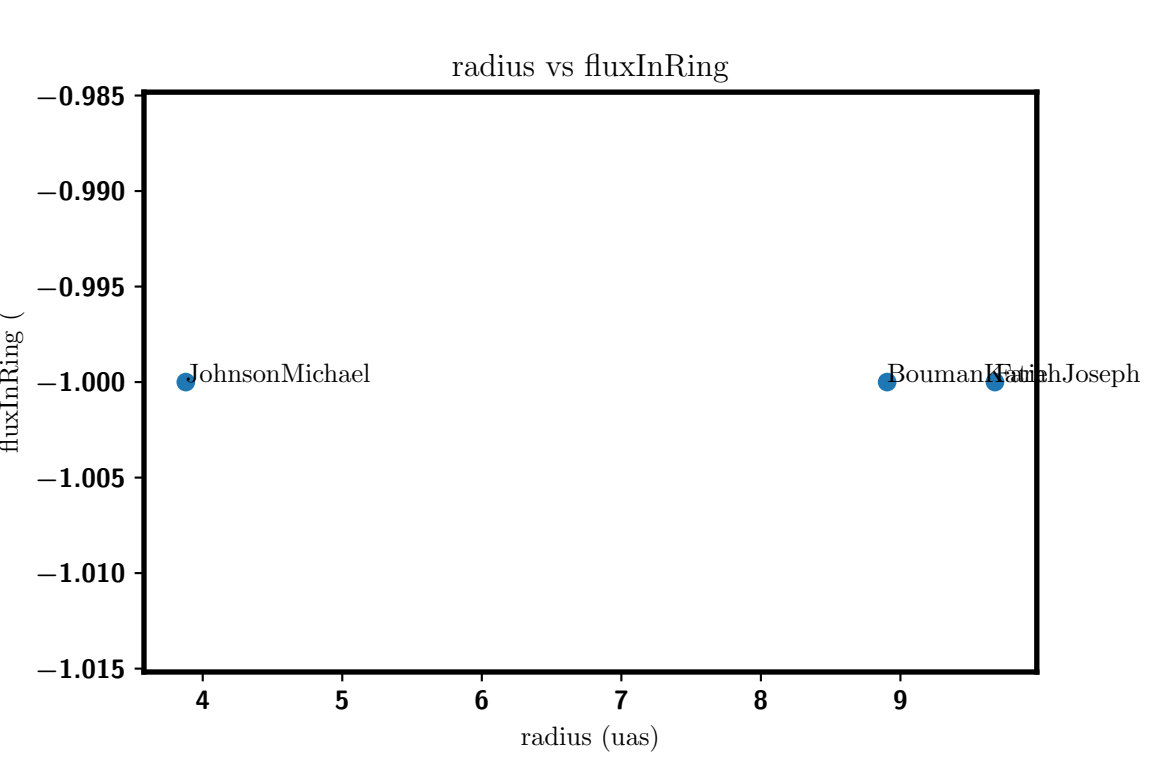

orientation vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
radius (uas)
9
8
7
6
5
4
−1.0075 −1.0050 −1.0025 −1.0000 −0.9975 −0.9950 −0.9925
orientation (angle)

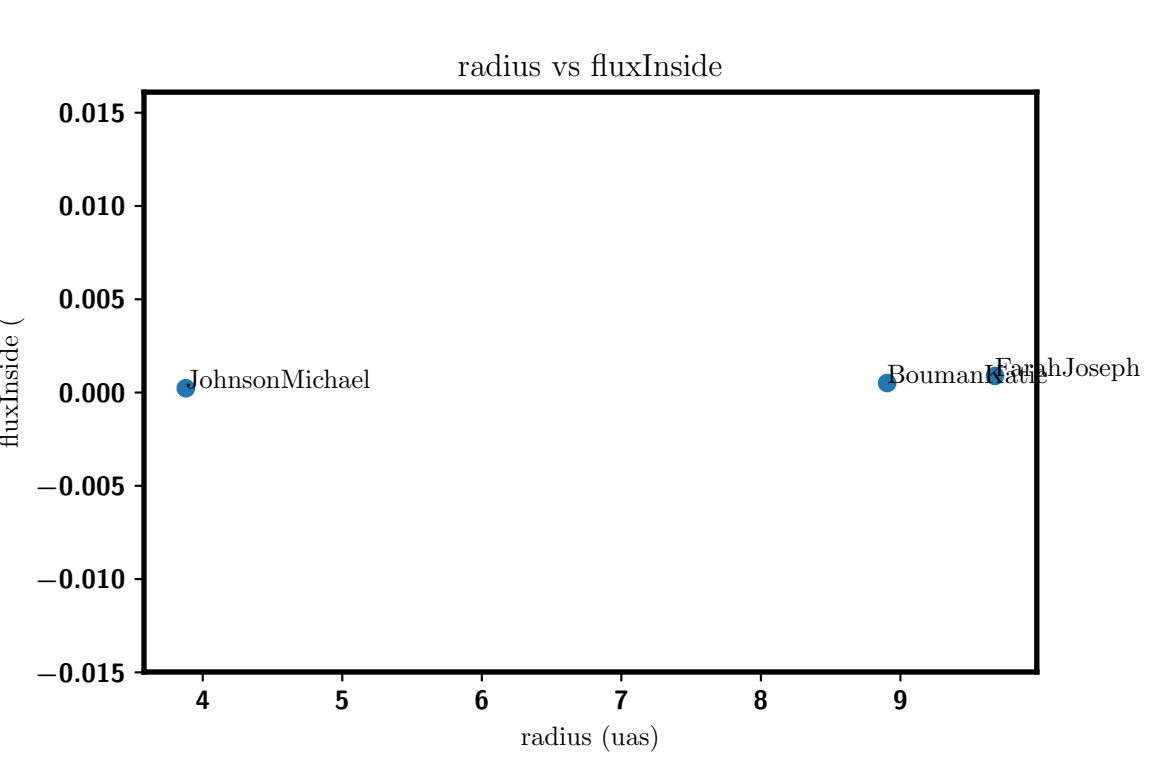

orientation vs sharpness
FarahJoseph
JohnsonMichael
BoumanKatie
625
600
575
550
525
500
475
sharpness (ratio)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
orientation (angle)

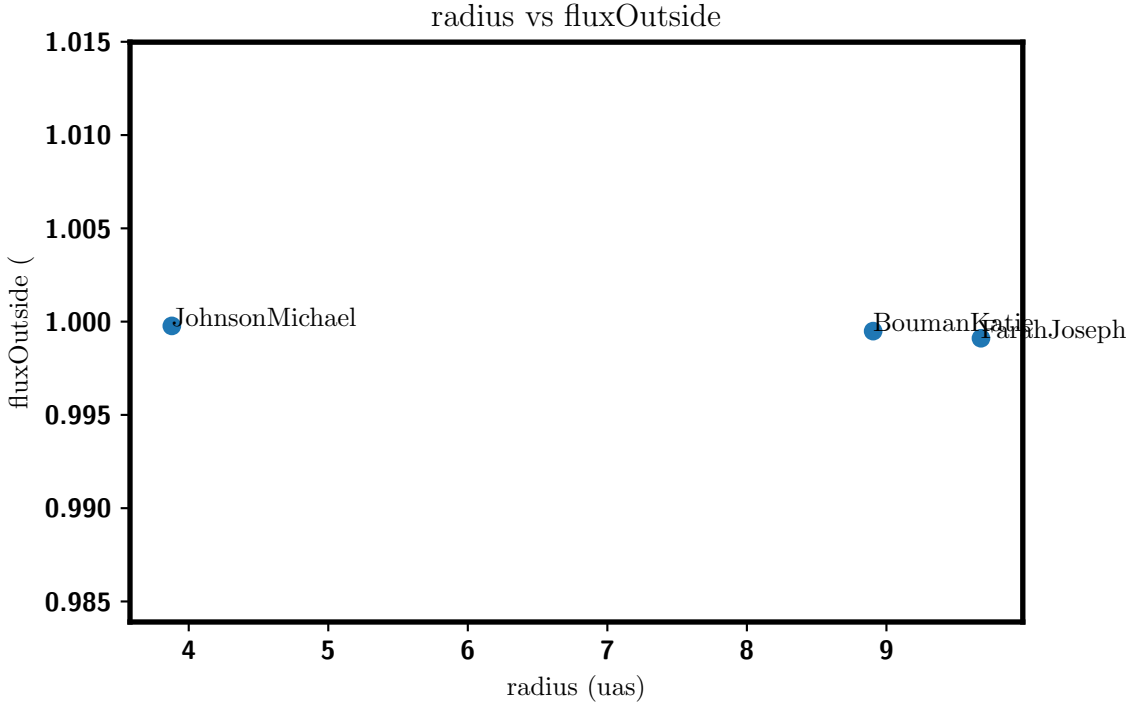

orientation vs width
FarahJoseph
BoumanKatie
JohnsonMichael
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
width (uas)
−1.0075
−1.0050
−1.0025
−1.0000
−0.9975
−0.9950
−0.9925
orientation (angle)

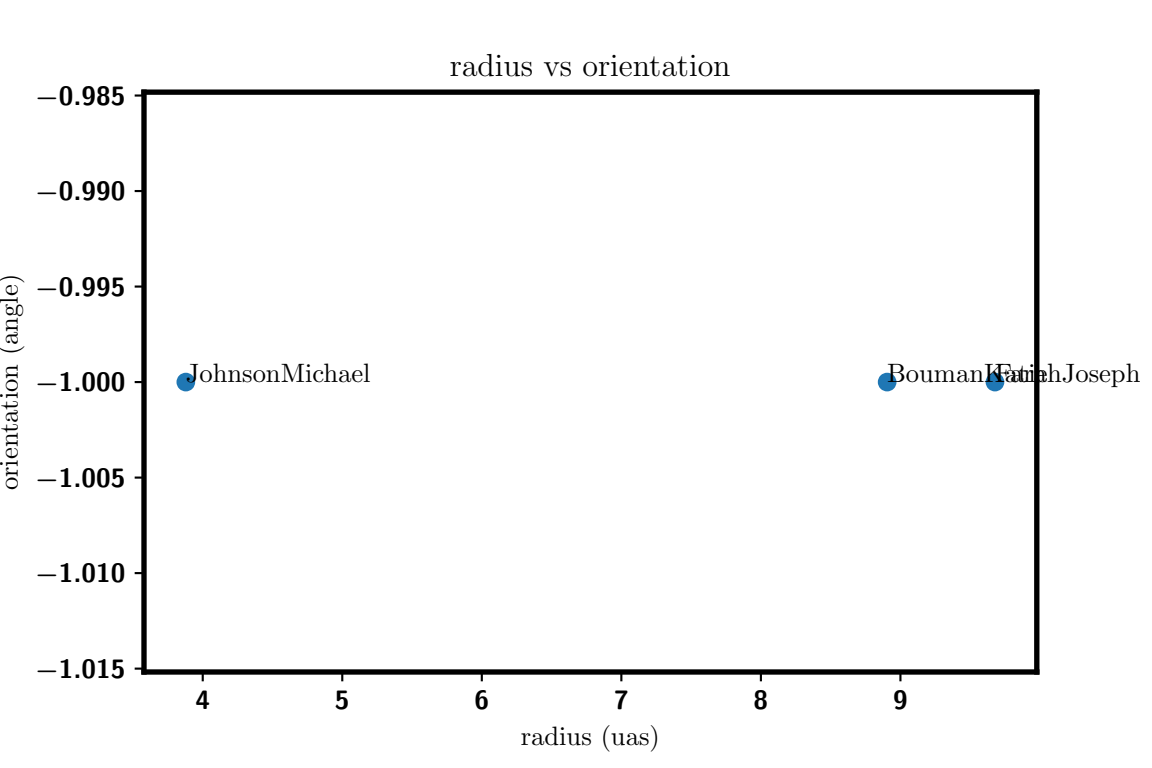

radius vs asymmetry
JohnsonMichael
FarahJoseph
BoumanKatie
asymmetry (ratio)
radius (uas)
2.5
2.0
1.5
1.0
0.5
4
5
6
7
8
9

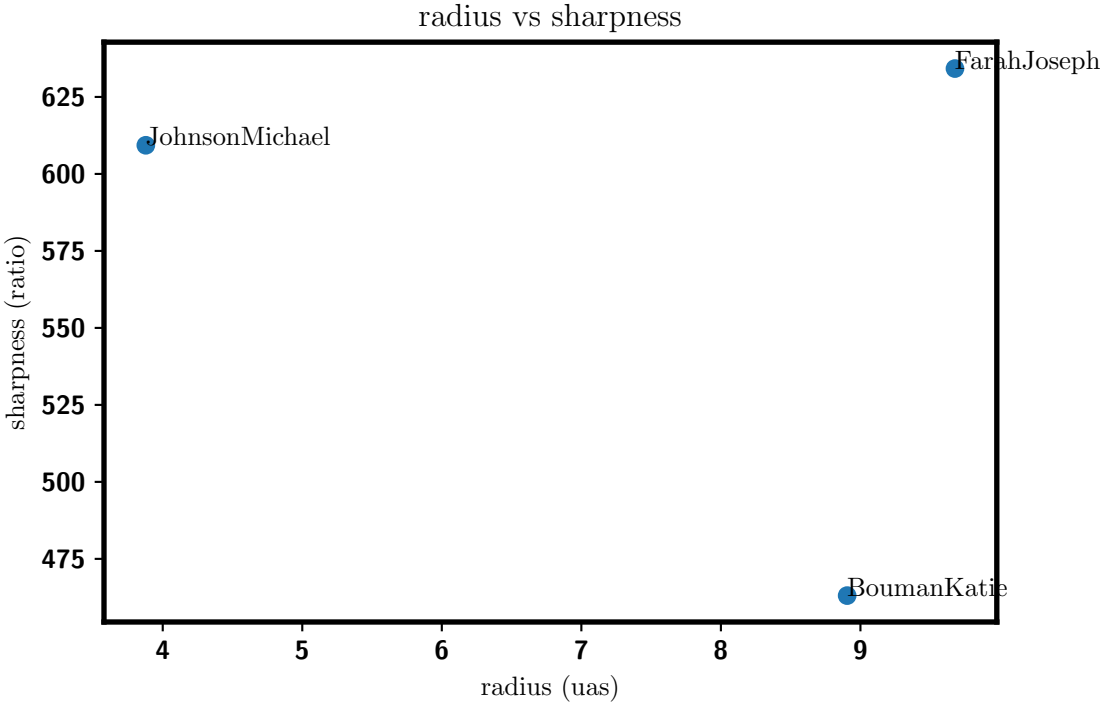

radius vs fluxInDepression
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInDepression (
JohnsonMichael
4
5
6
7
8
9
radius (uas)

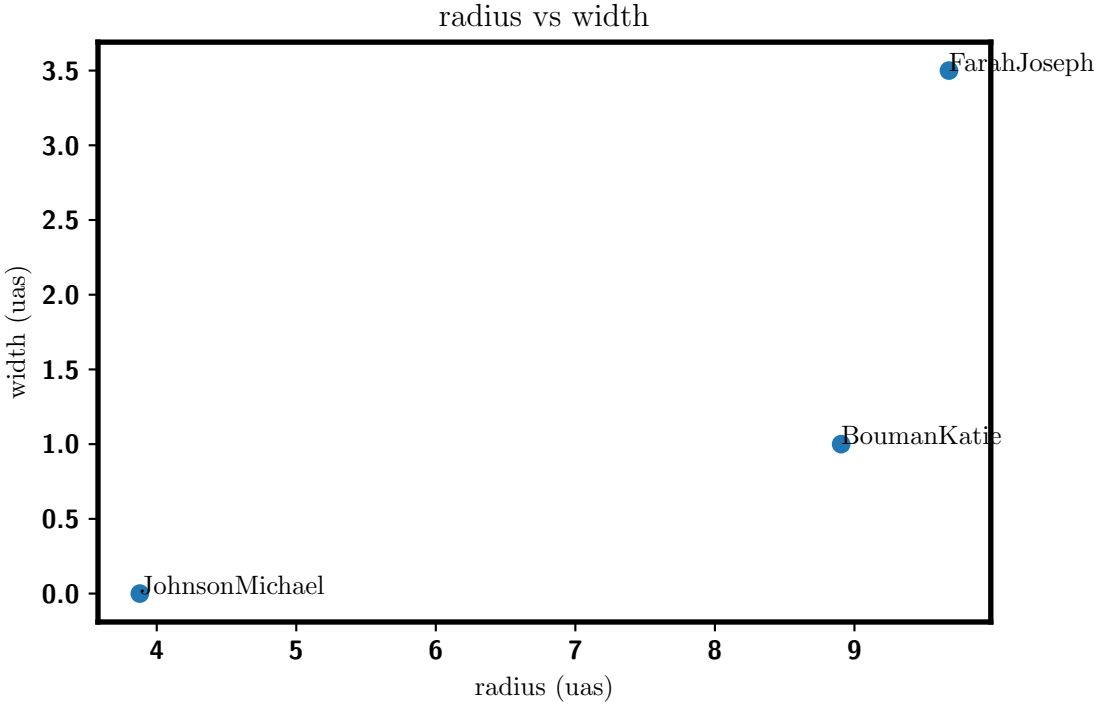

radius vs fluxInRing
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInRing (
JohnsonMichael
BoumanKatie
FarahJoseph
4
5
6
7
8
9
radius (uas)

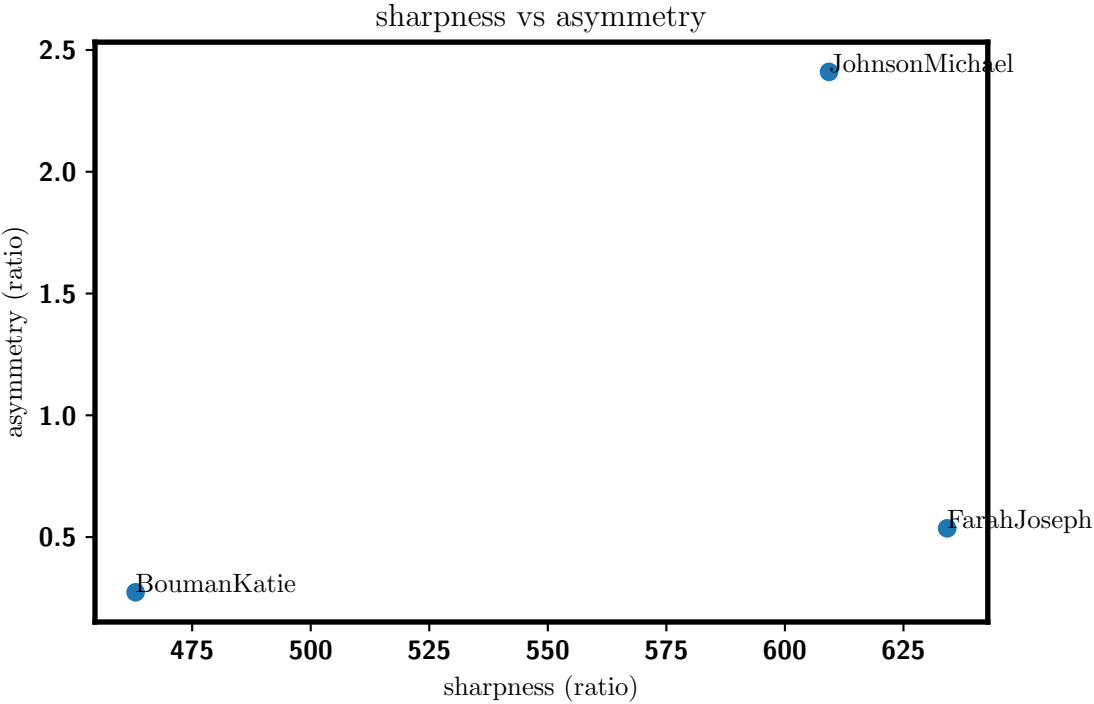

radius vs fluxInside
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
fluxInside (
4
5
6
7
8
9
radius (uas)
JohnsonMichael
BoumanKatie
FarahJoseph

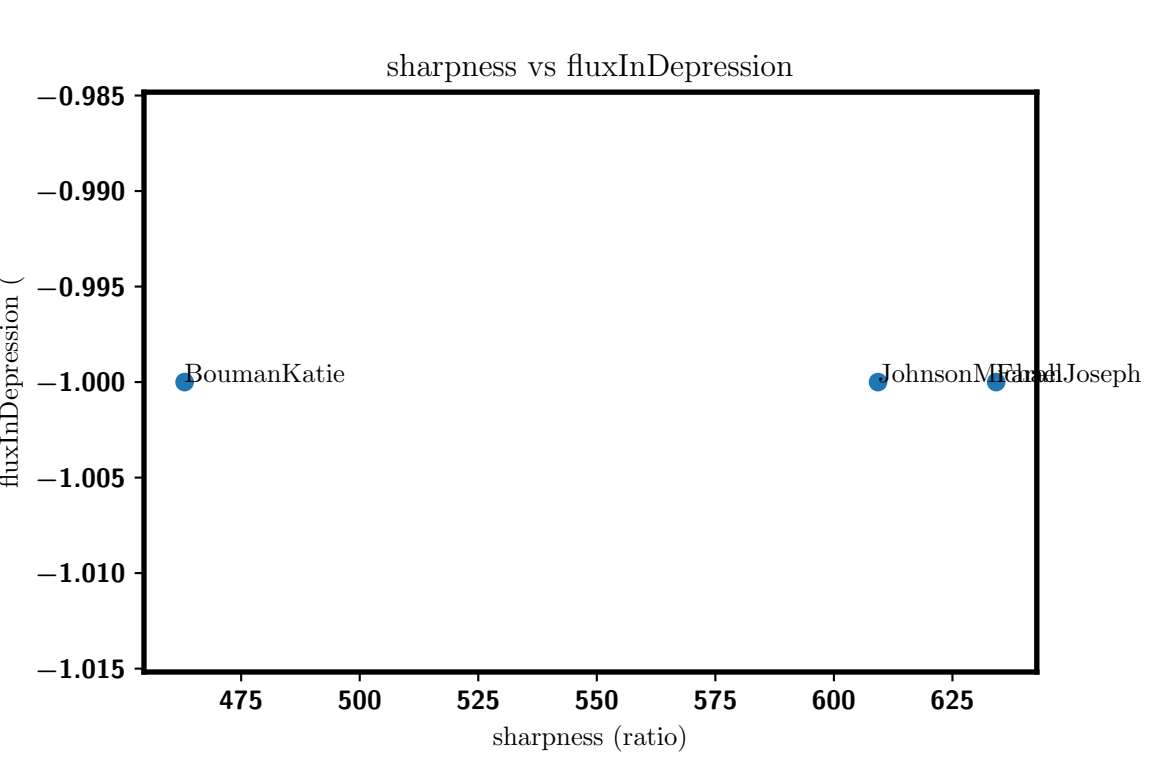

radius vs fluxOutside
1.015
1.010
1.005
1.000
0.995
0.990
0.985
fluxOutside (
JohnsonMichael
BoumanKatie
FarahJoseph
4
5
6
7
8
9
radius (uas)

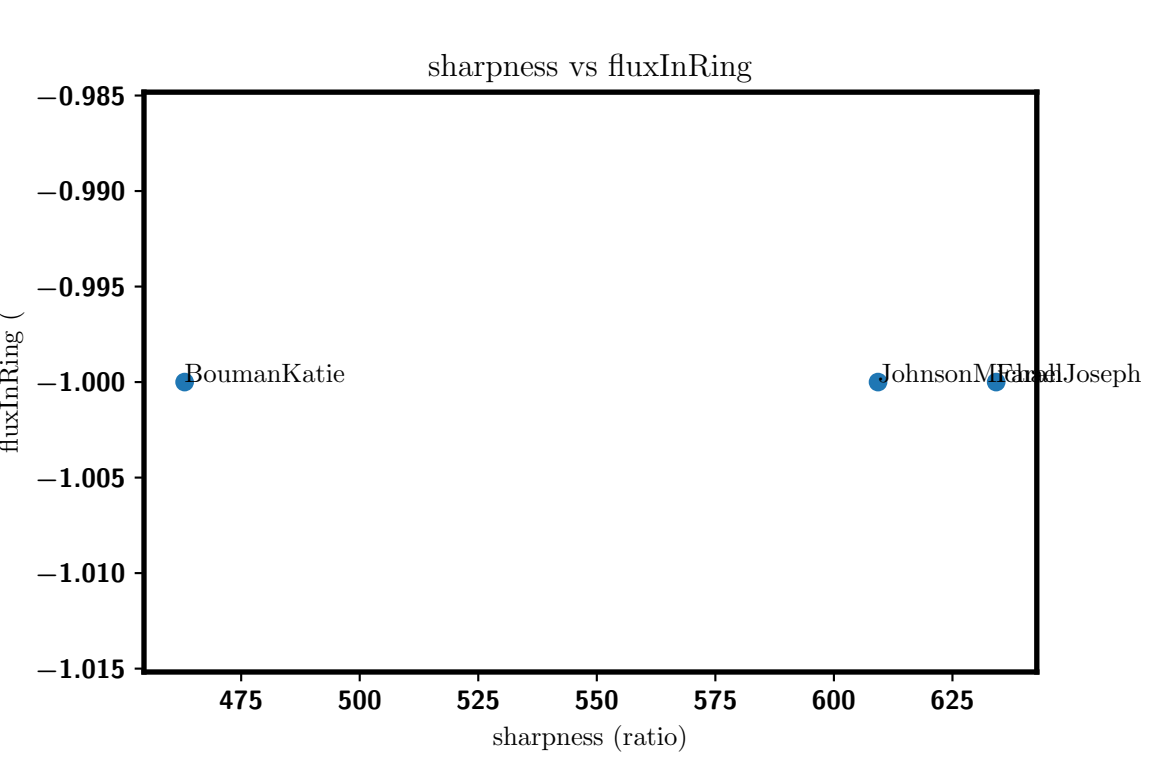

radius vs orientation
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
orientation (angle)
JohnsonMichael
BoumanKatie
Joseph
4
5
6
7
8
9
radius (uas)

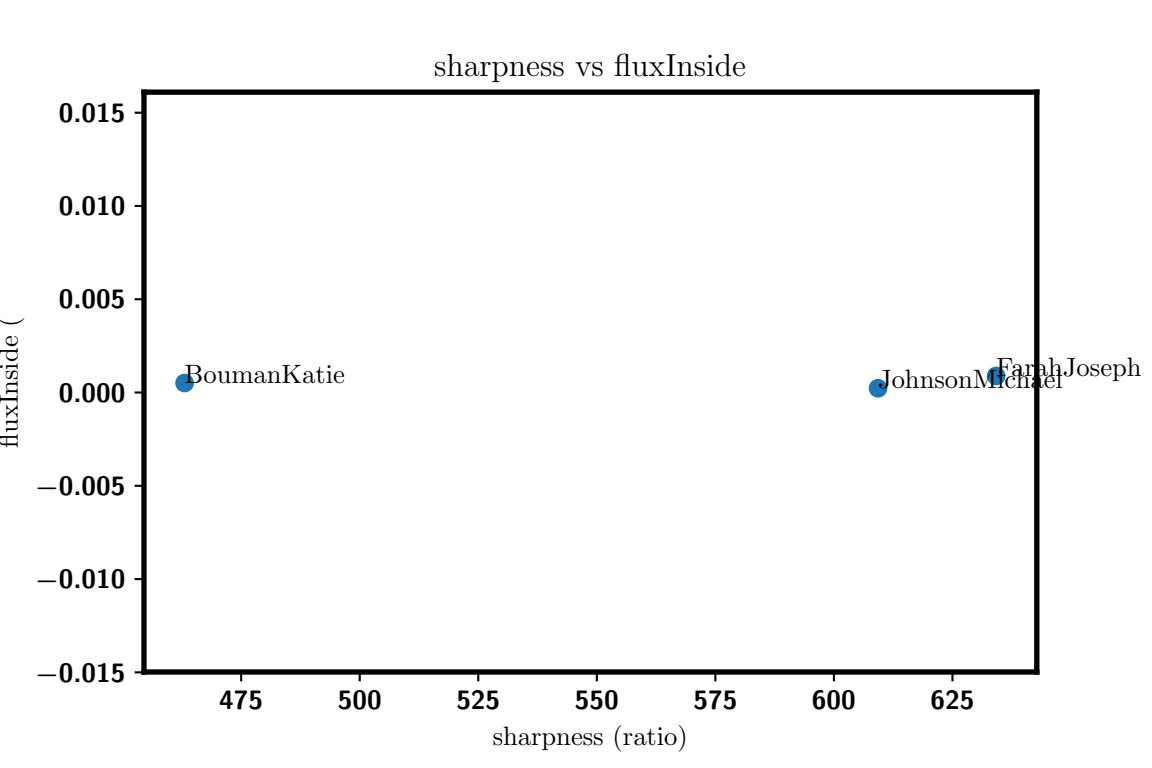

radius vs sharpness
FarahJoseph
JohnsonMichael
BoumanKatie
625
600
575
550
525
500
475
sharpness (ratio)
4
5
6
7
8
9
radius (uas)

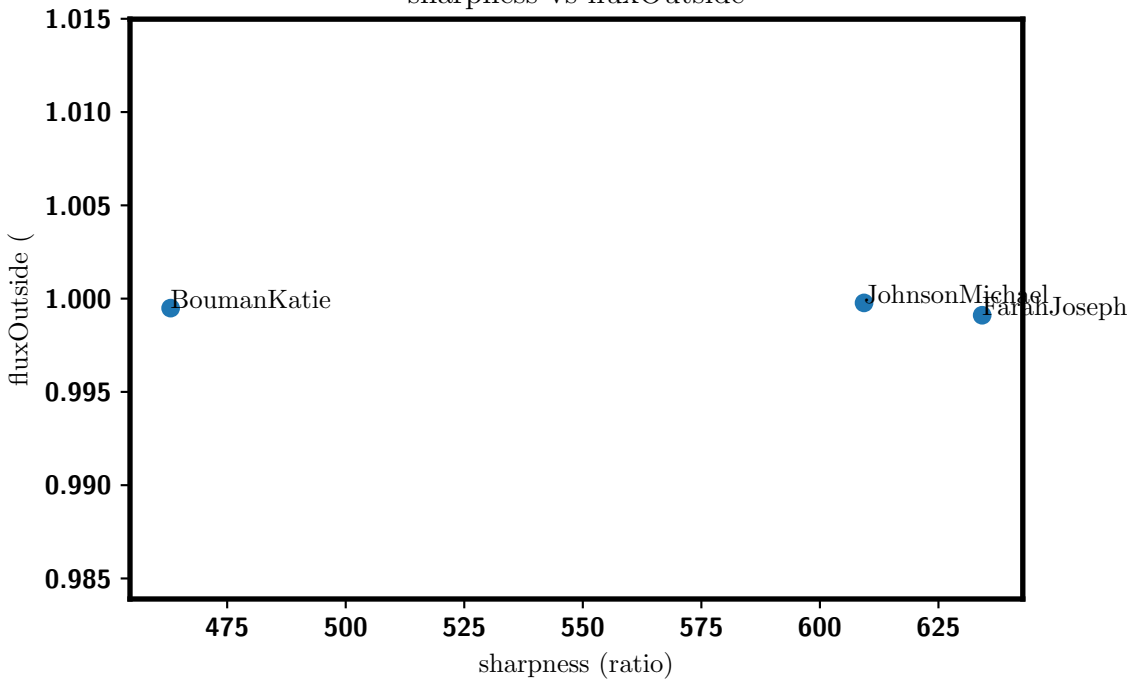

radius vs width
FarahJoseph
BoumanKatie
JohnsonMichael
width (uas)
radius (uas)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4
5
6
7
8
9

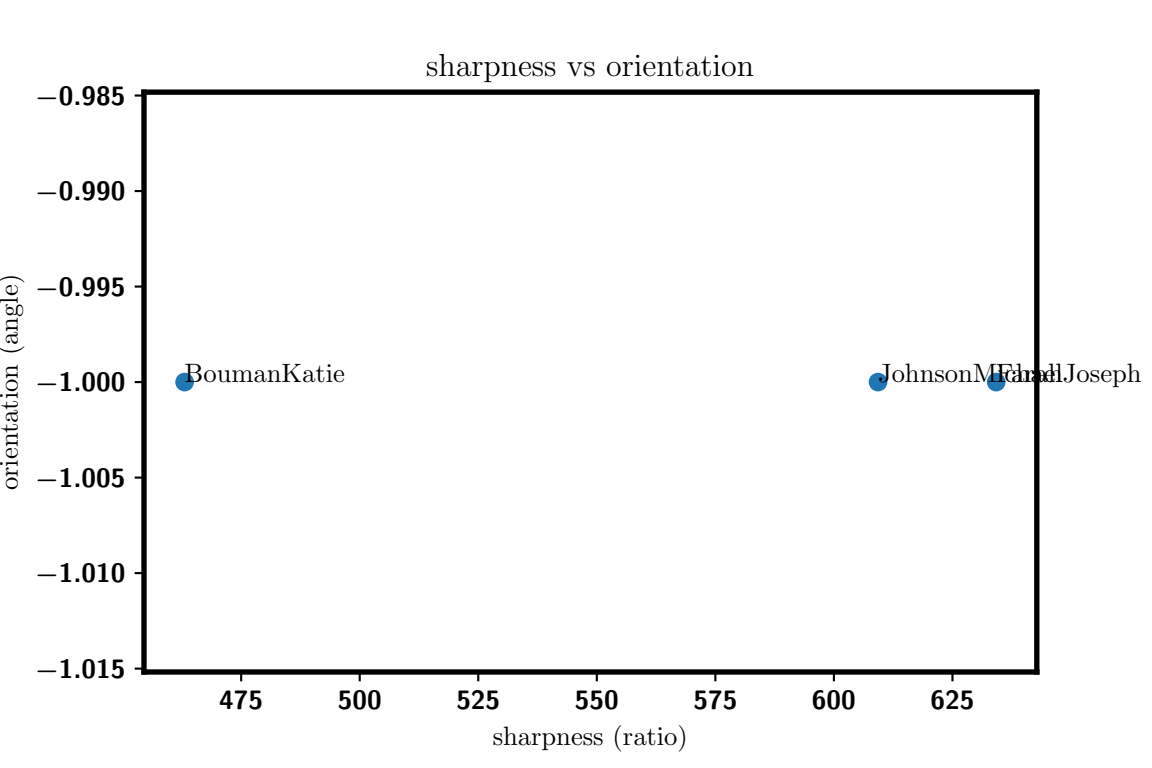

sharpness vs asymmetry
JohnsonMichael
FarahJoseph
BoumanKatie
asymmetry (ratio)
sharpness (ratio)
2.5
2.0
1.5
1.0
0.5
475
500
525
550
575
600
625

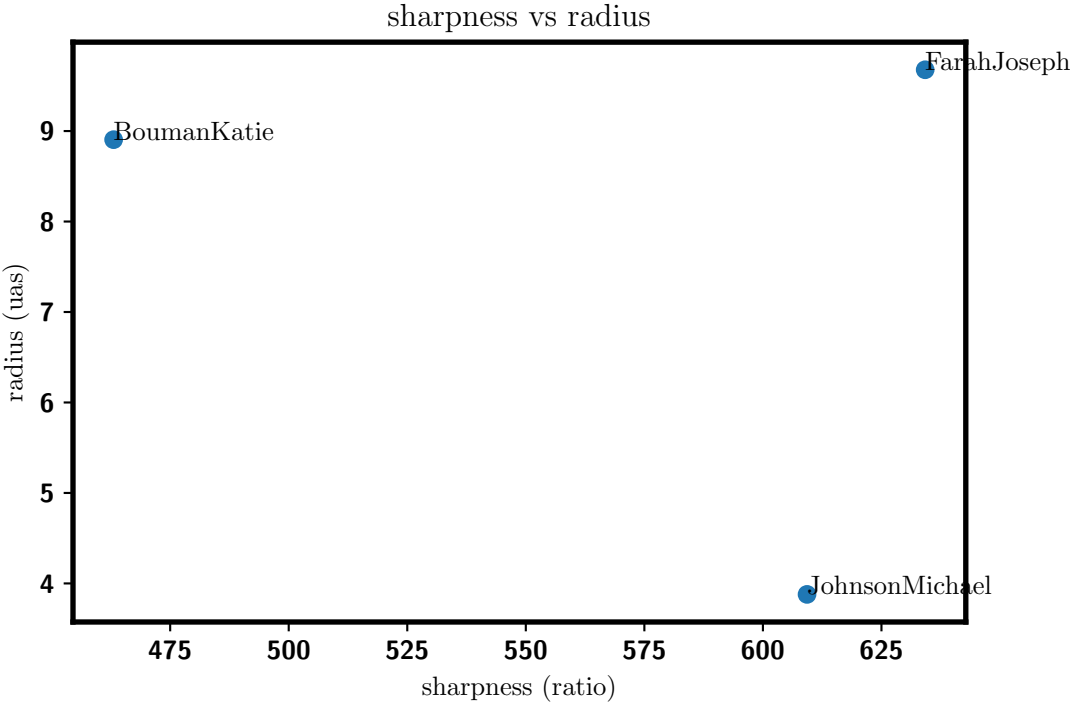

sharpness vs fluxInDepression
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInDepression (
475
500
525
550
575
600
625
sharpness (ratio)
BoumanKatie
JohnsonM
Joseph

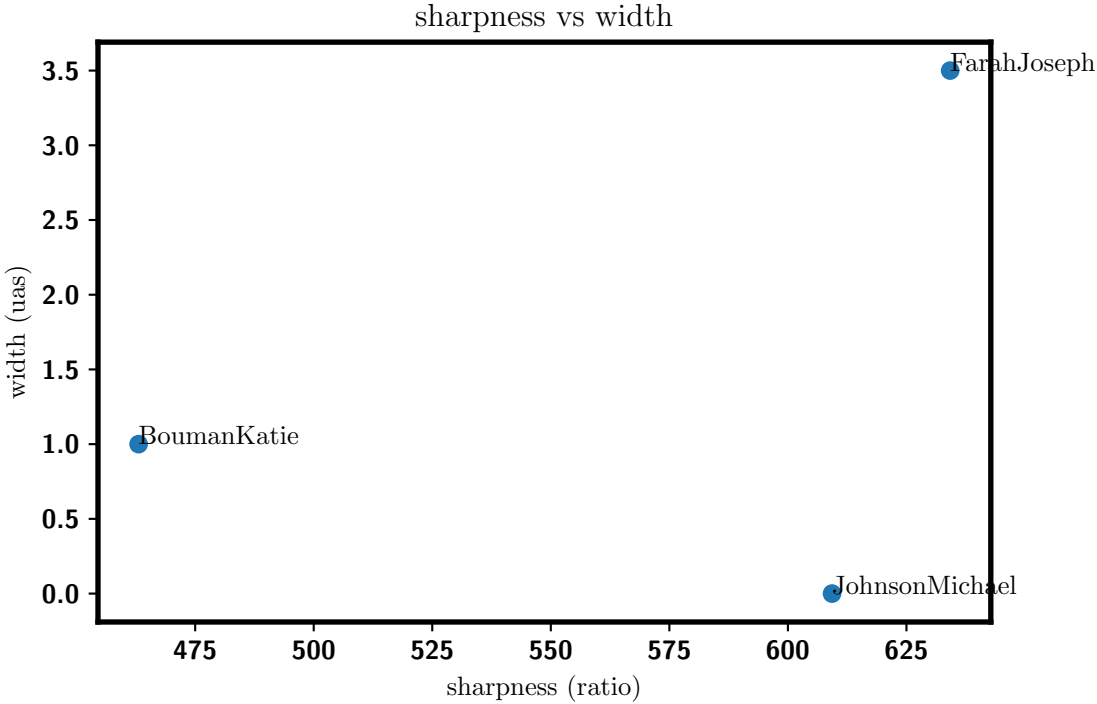

sharpness vs fluxInRing
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInRing (
BoumanKatie
475
500
525
550
575
600
625
sharpness (ratio)

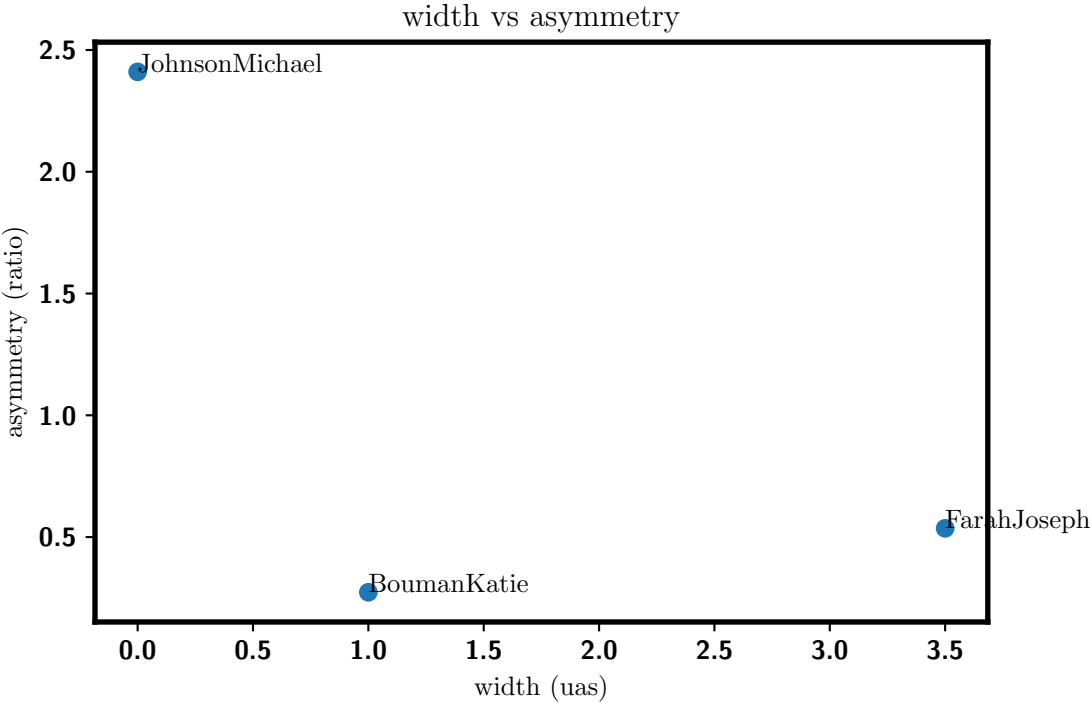

sharpness vs fluxInside
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
fluxInside (
BoumanKatie
JohnsonMichael
FarahJoseph
475
500
525
550
575
600
625
sharpness (ratio)

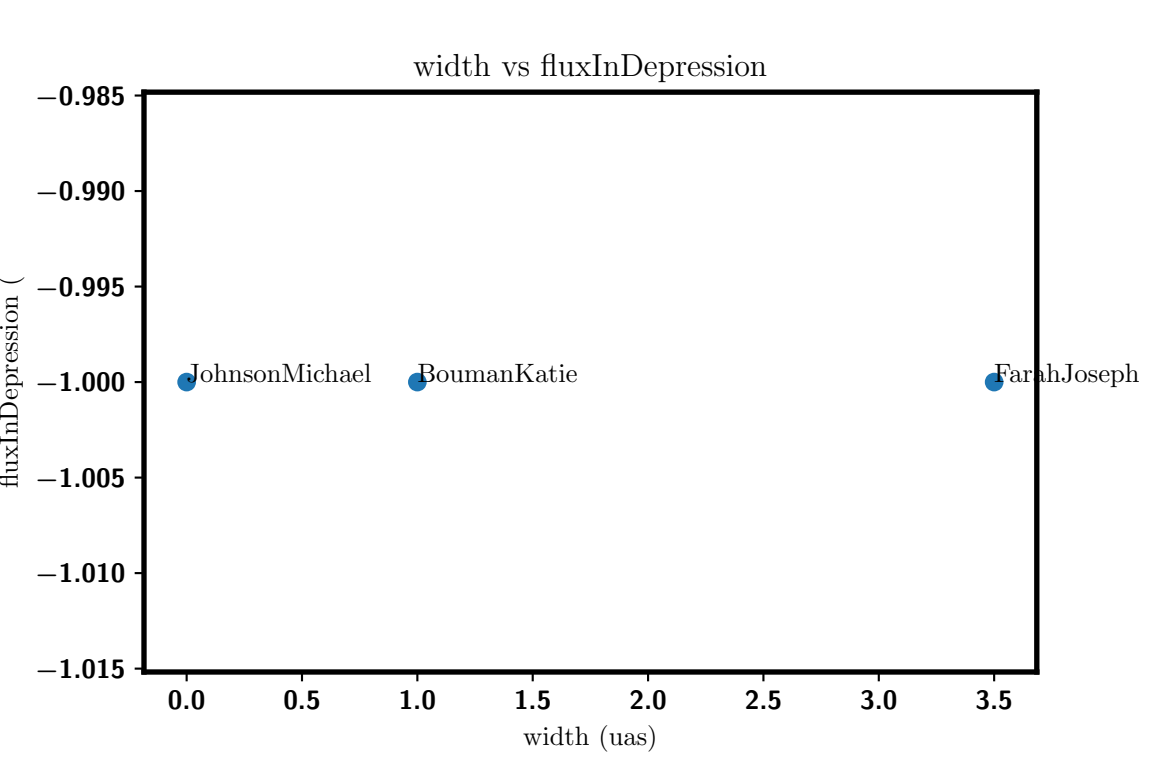

sharpness vs fluxOutside
1.015
1.010
1.005
1.000
0.995
0.990
0.985
fluxOutside (
BoumanKatie
JohnsonMichael
FaraliJoseph
475
500
525
550
575
600
625
sharpness (ratio)

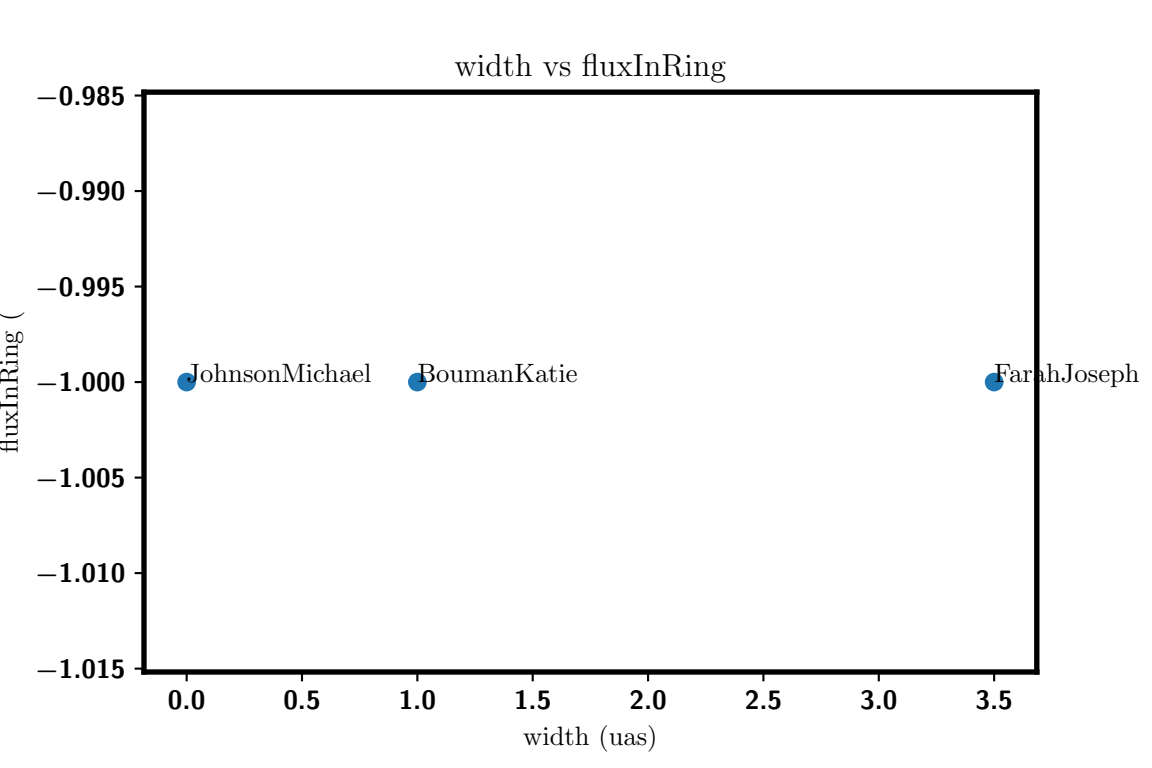

sharpness vs orientation
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
orientation (angle)
475
500
525
550
575
600
625
sharpness (ratio)
BoumanKatie
JohnsonMichael
Joseph

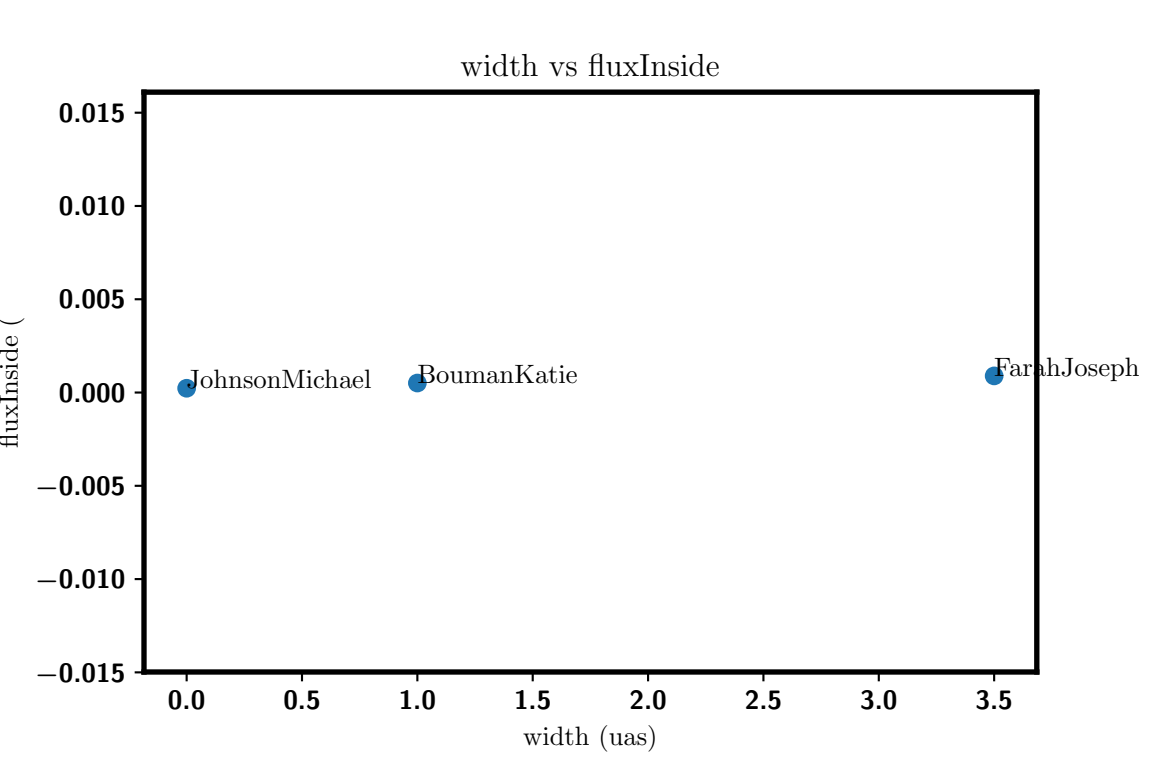

sharpness vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
9
8
7
6
5
4
radius (uas)
475
500
525
550
575
600
625
sharpness (ratio)

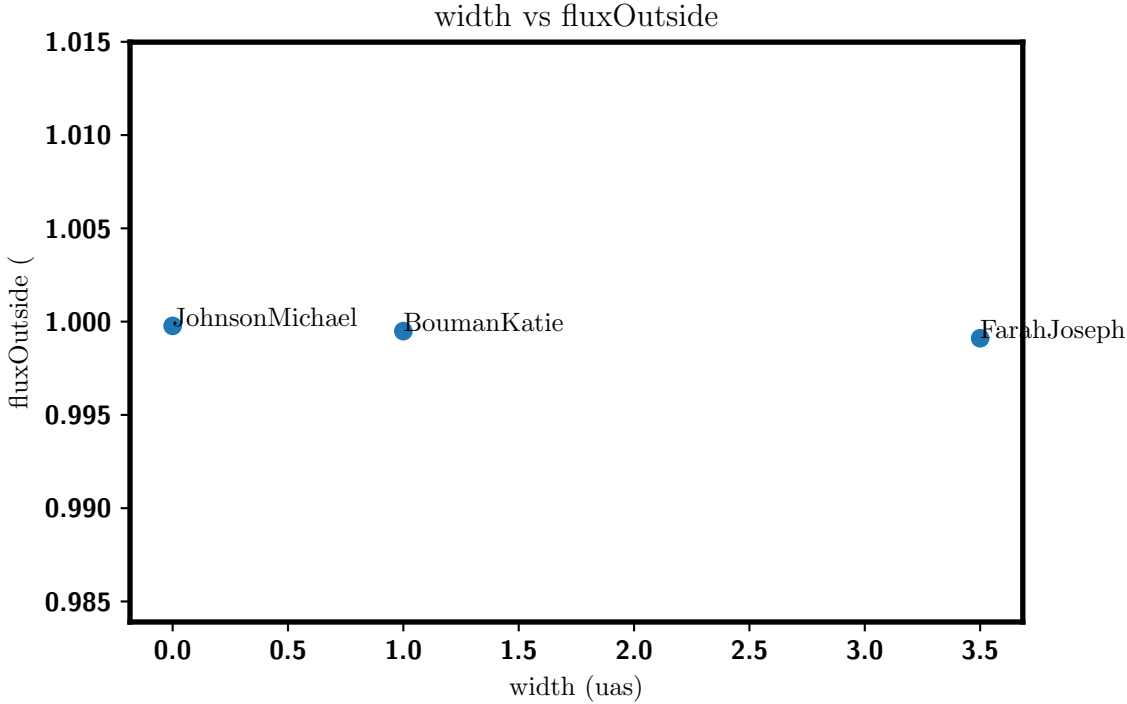

sharpness vs width
FarahJoseph
BoumanKatie
JohnsonMichael
width (uas)
sharpness (ratio)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
475
500
525
550
575
600
625

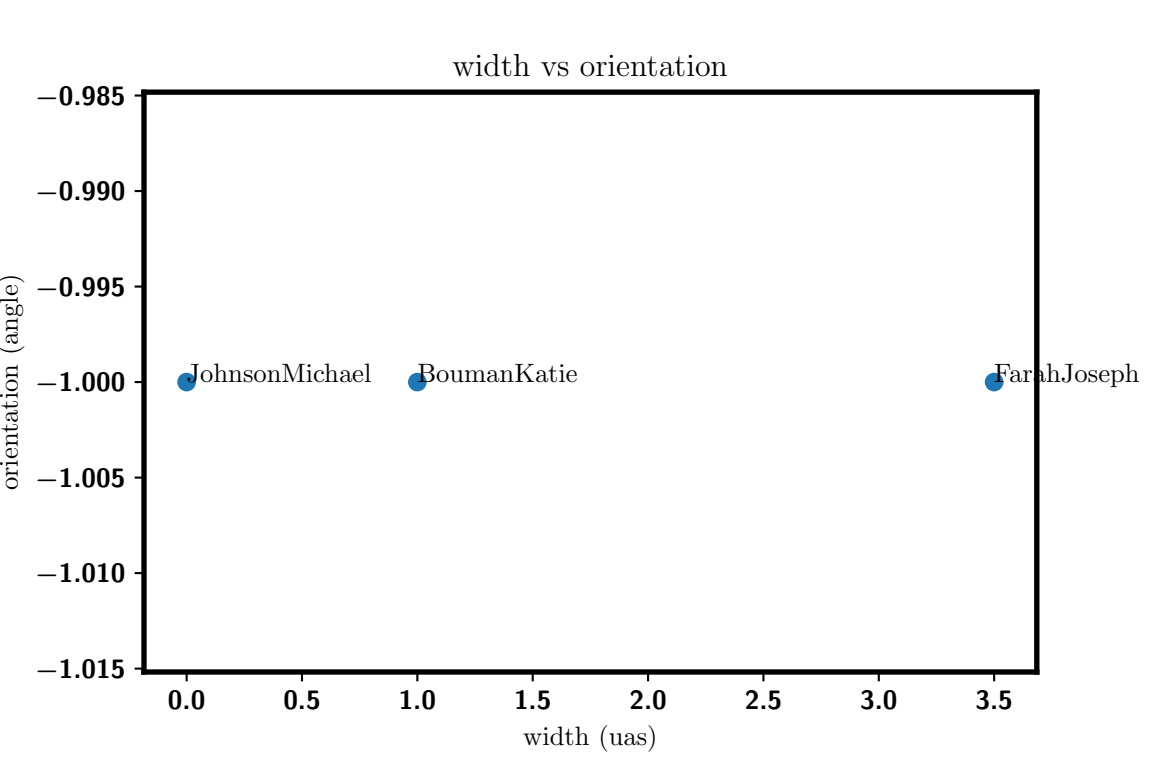

width vs asymmetry
JohnsonMichael
FarahJoseph
BoumanKatie
asymmetry (ratio)
width (uas)
2.5
2.0
1.5
1.0
0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5

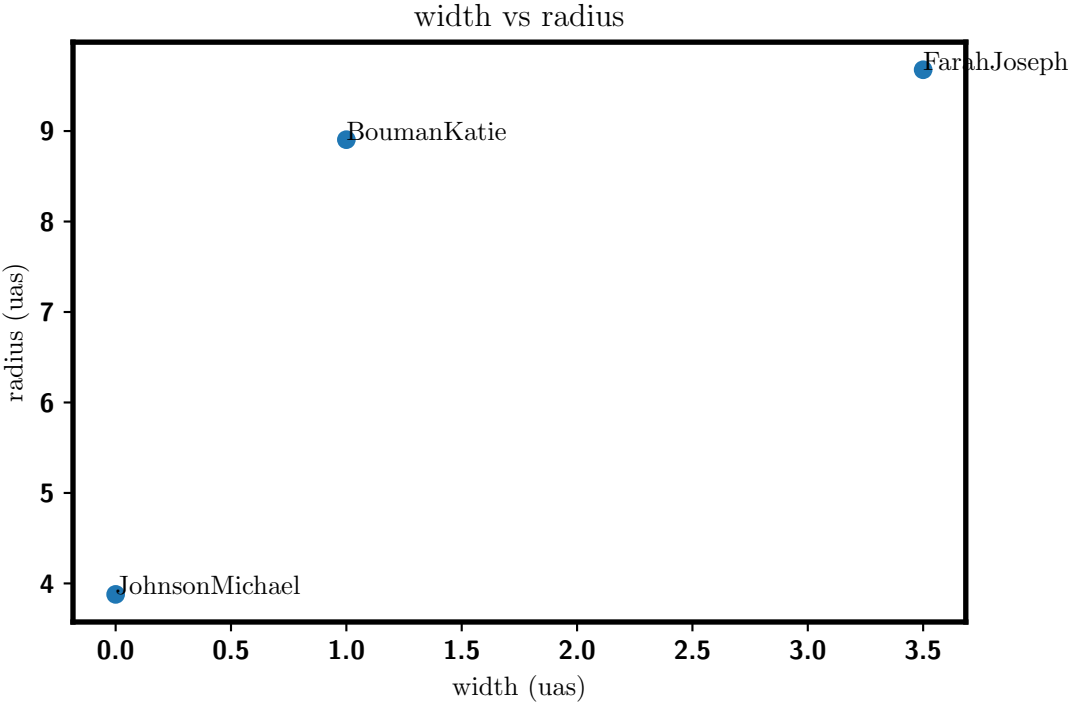

width vs fluxInDepression
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInDepression (
JohnsonMichael
BoumanKatie
FarahJoseph
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
width (uas)

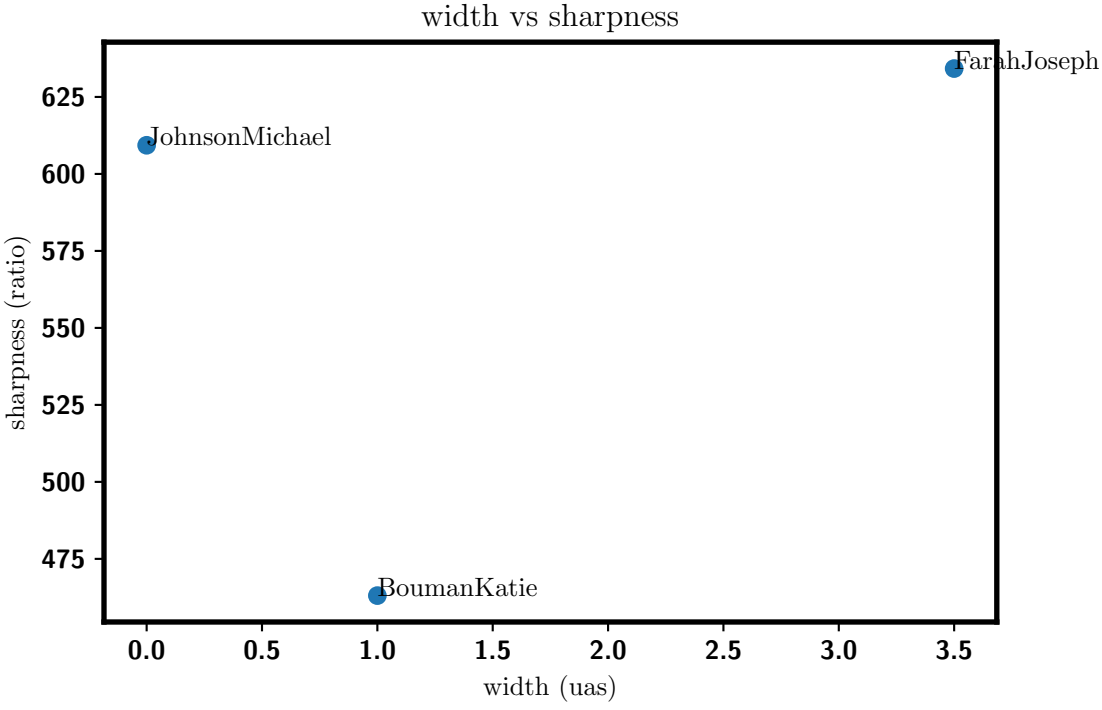

width vs fluxInRing
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
fluxInRing (
JohnsonMichael
BoumanKatie
FarahJoseph
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
width (uas)


width vs fluxInside
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
fluxInside (
JohnsonMichael
BoumanKatie
FarahJoseph
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
width (uas)


width vs fluxOutside
1.015
1.010
1.005
1.000
0.995
0.990
0.985
fluxOutside (
JohnsonMichael
BoumanKatie
FarahJoseph
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
width (uas)


width vs orientation
−0.985
−0.990
−0.995
−1.000
−1.005
−1.010
−1.015
orientation (angle)
JohnsonMichael
BoumanKatie
FarahJoseph
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
width (uas)


width vs radius
FarahJoseph
BoumanKatie
JohnsonMichael
radius (uas)
width (uas)
9
8
7
6
5
4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5


width vs sharpness
FarahJoseph
JohnsonMichael
BoumanKatie
sharpness (ratio)
625
600
575
550
525
500
475
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
width (uas)