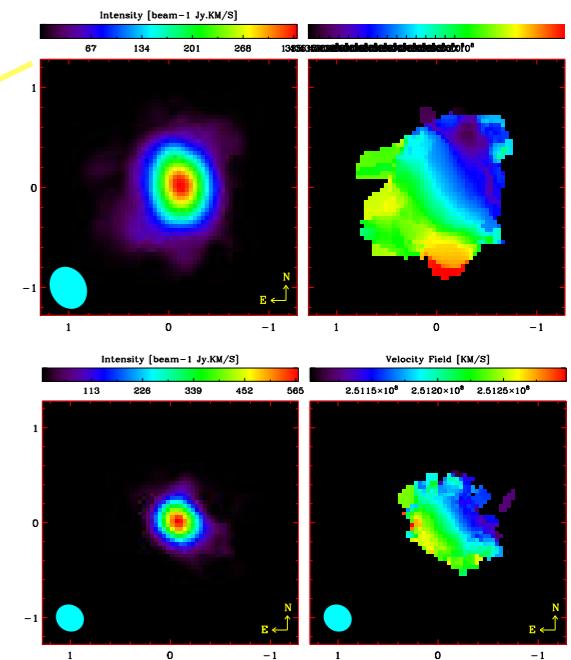
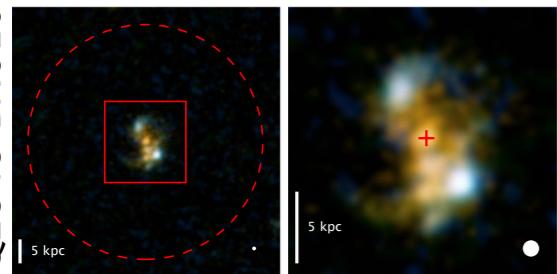
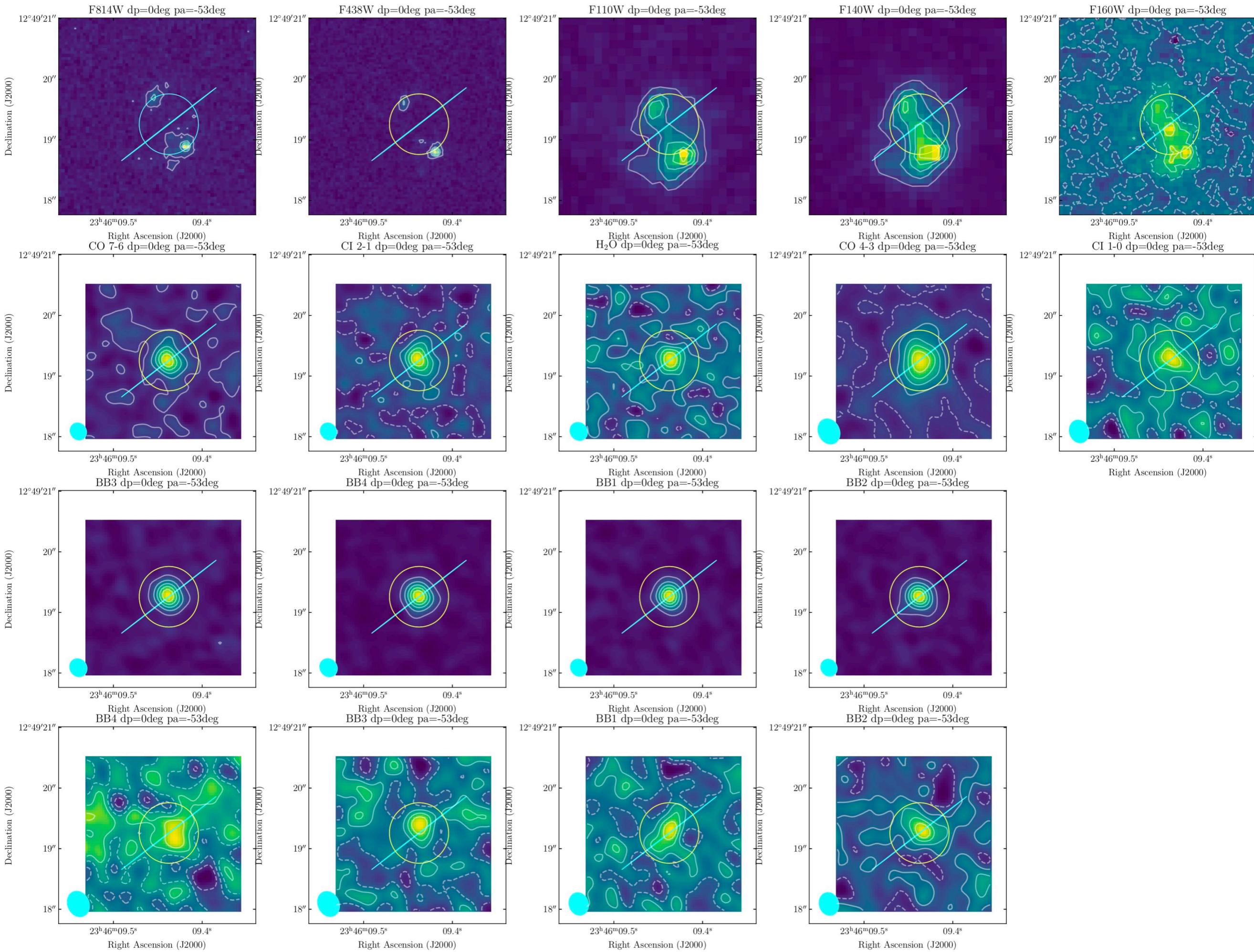


## CO 4-3

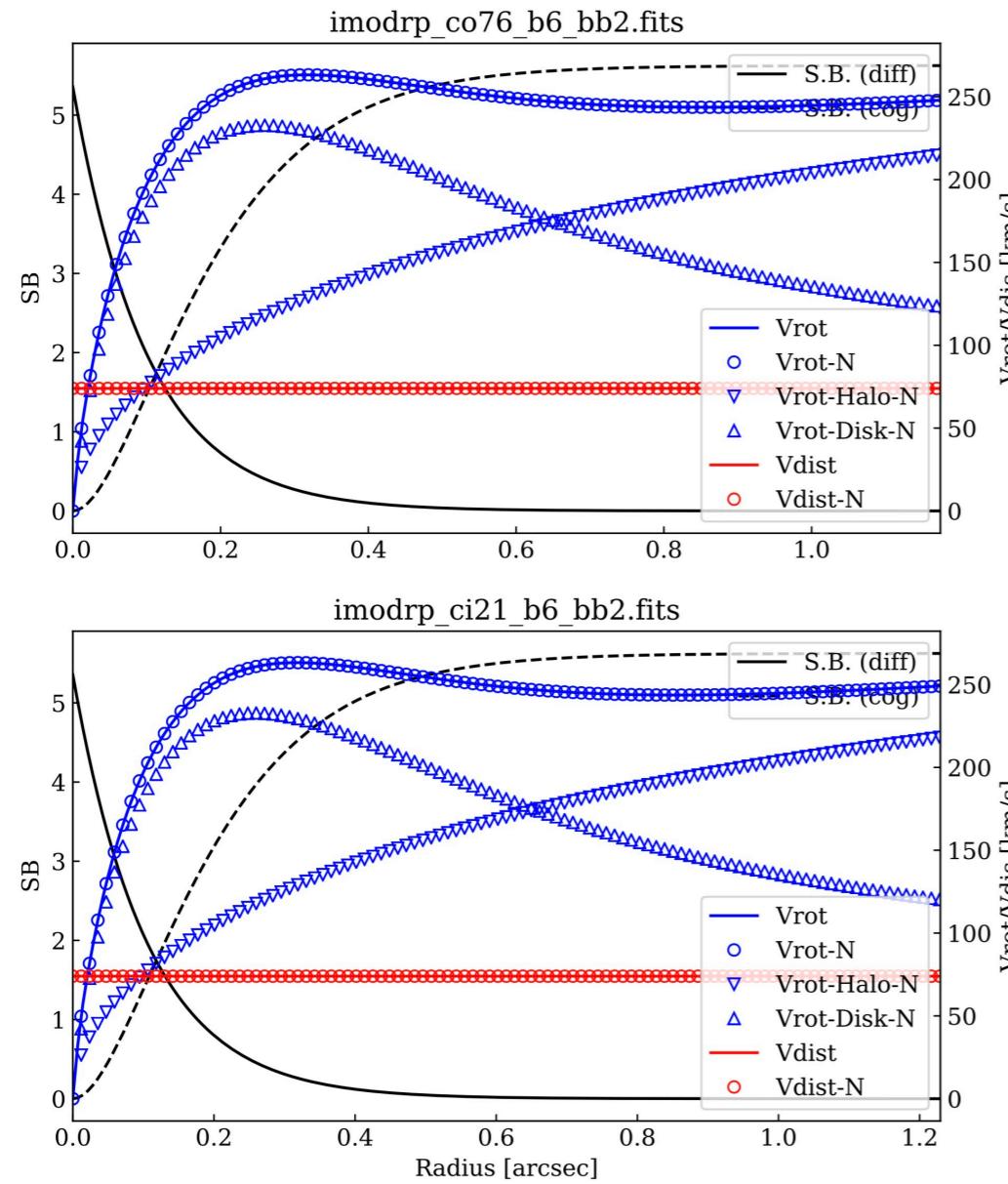


Q2343-BX610





# Vrot from a grav. potential model



```

#####
@optimize  »  »  »  »  »  »  # optimization setup
# key/min/max, etc.
#####

#####
# note: we tie vrot[1:4] as a single free parameter here; vrot[0] is fixed to 0 still.
#vrot[1:5]@co76 0. » +800. 300.
vdis[0:5]@co76 0. » +800. 80.

pa@co76 -61.-80 -61.+80 80.
inc@co76 5. 85. 45.

x ypos[0]@co76 356.539321-1./3600. 356.539321+1./3600. 0.5/3600.
x vpos[1]@co76 12.8220179445-1./3600. 12.8220179445+1./3600. 0.5/3600.

intflux@co6 0.1 200.0 10.0
sbser[0]@co6 0.01 1.0 1.0
ge_pa@co6 90.0-90.0 90.0+90.0 89.
ge_q@co6 1.0 10.0 5.

#x ypos[0]@ci21 356.539321-3./3600. 356.539321+3./3600. 2./3600.
#x vpos[1]@ci21 12.8220179445-1./3600. 12.8220179445+1./3600. 2./3600.

intflux@ci21 0.1 200.0 10.0
sbser[0]@ci21 0.01 1.0 1.0
#ge_pa@ci21 90.0-90.0 90.0+90.0 89.
ge_q@ci21 1.0 10.0 5.

#x ypos[0]@h2o 356.539321-3./3600. 356.539321+3./3600. 2./3600.
#x vpos[1]@h2o 12.8220179445-1./3600. 12.8220179445+1./3600. 2./3600.

intflux@h2o 0.1 200.0 10.0
sbser[0]@h2o 0.01 1.0 1.0
#ge_pa@h2o 90.0-90.0 90.0+90.0 89.
ge_q@h2o 1.0 10.0 5.

intflux@co43 0.1 200.0 0.1
sbser[0]@co43 0.01 1.0 0.01
ge_q@co43 1.0 10.0 5.

intflux@ci10 0.1 200.0 0.1
sbser[0]@ci10 0.01 1.0 0.01
ge_q@ci10 1.0 10.0 5.

#x ypos[0]@cont 356.539321-3./3600. 356.539321+3./3600. 2./3600.
#x vpos[1]@cont 12.8220179445-1./3600. 12.8220179445+1./3600. 2./3600.

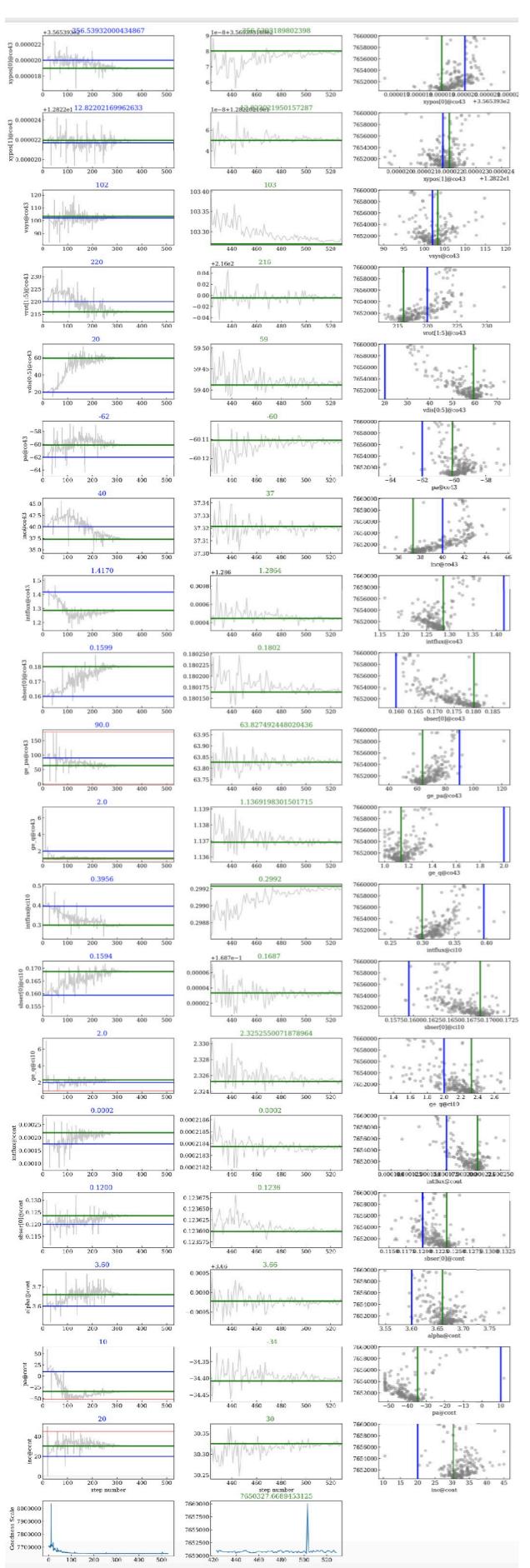
intflux@cont 0.1e-3 10.e-3 10e-3
sbser[0]@cont 0.01 0.30 1.00
alpha@cont 3 4.5 1.00
pa@cont 8-60 8+60 50
inc@cont 0 45. 30.

disk_sd@rc 1e5 1e10 1e9
disk_rs@rc 0.4 5 5
halo_mvir@rc 0.01 100 10

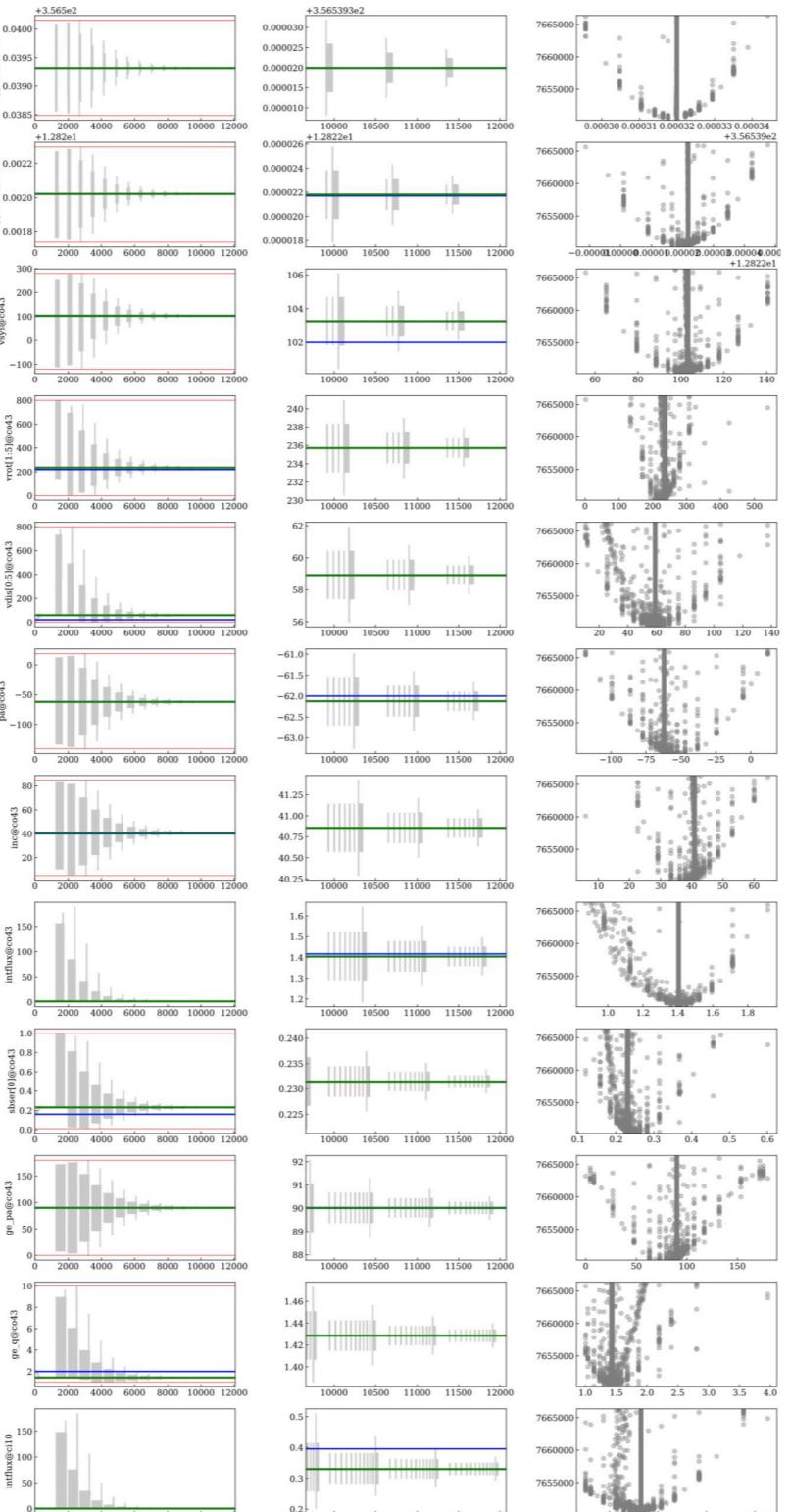
method 'amoeba'
outname_replace [('examples/bx610/almalib/band4/bx610.', 'b4_'), ('examples/bx610/almalib/band6/bx610.', 'b6_')]
outname_exclude ['cube128x128.', 'iter0.', 'mfs128x128.', 'image.']
outdir 'examples/bx610/models/xyb46dm128rc_ab'

```

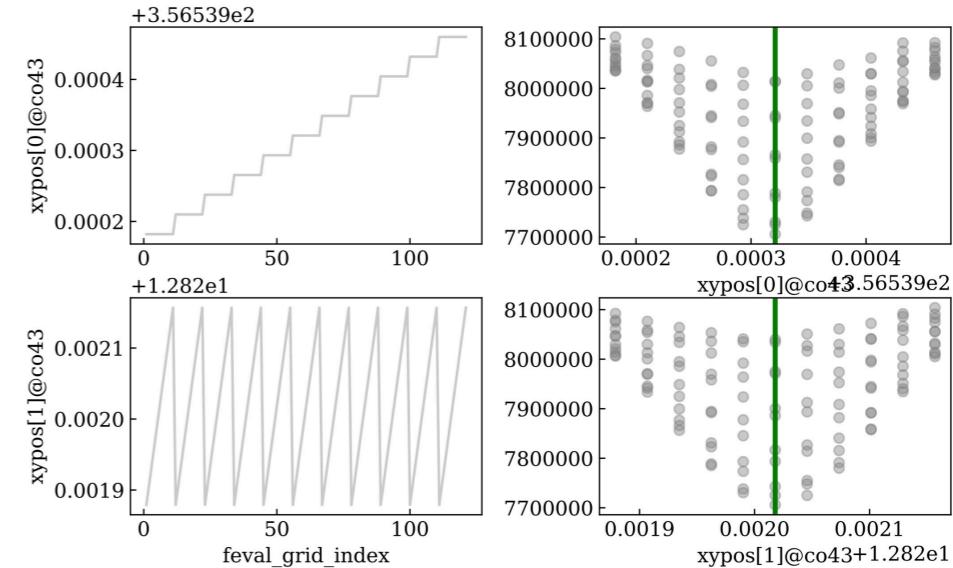
# amoeba



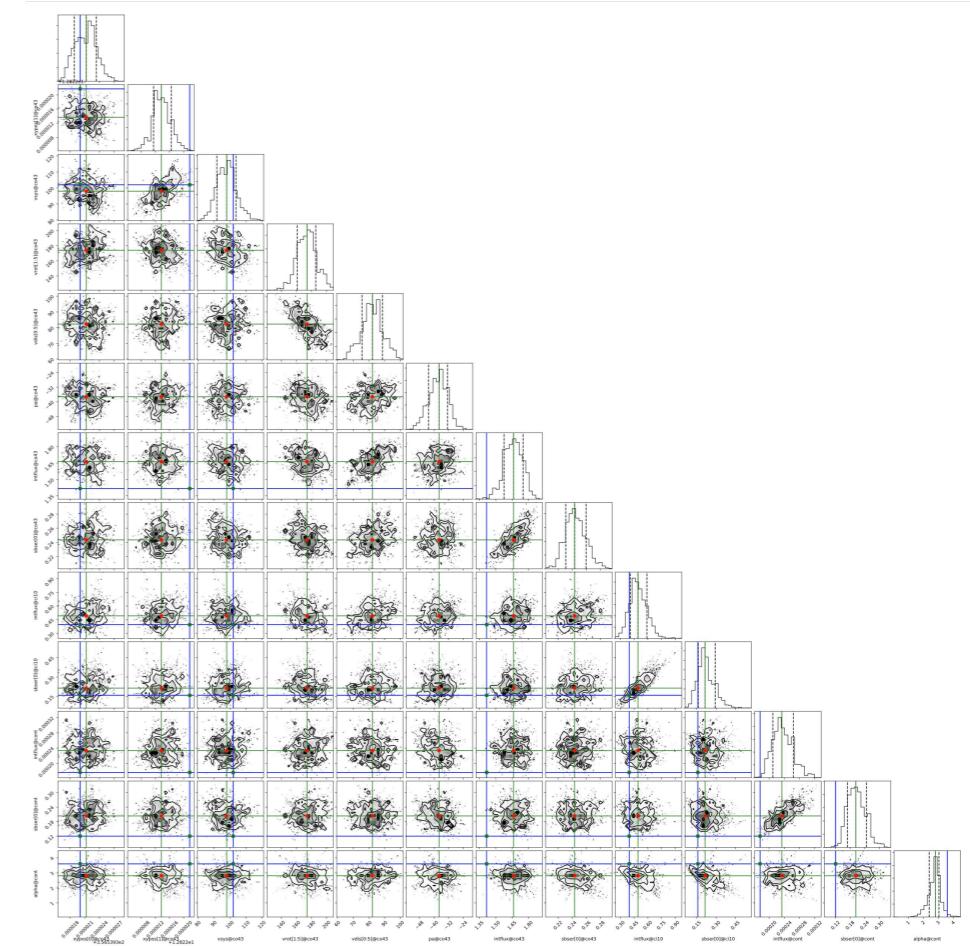
# scipy/lmfit-Nelder-Mead

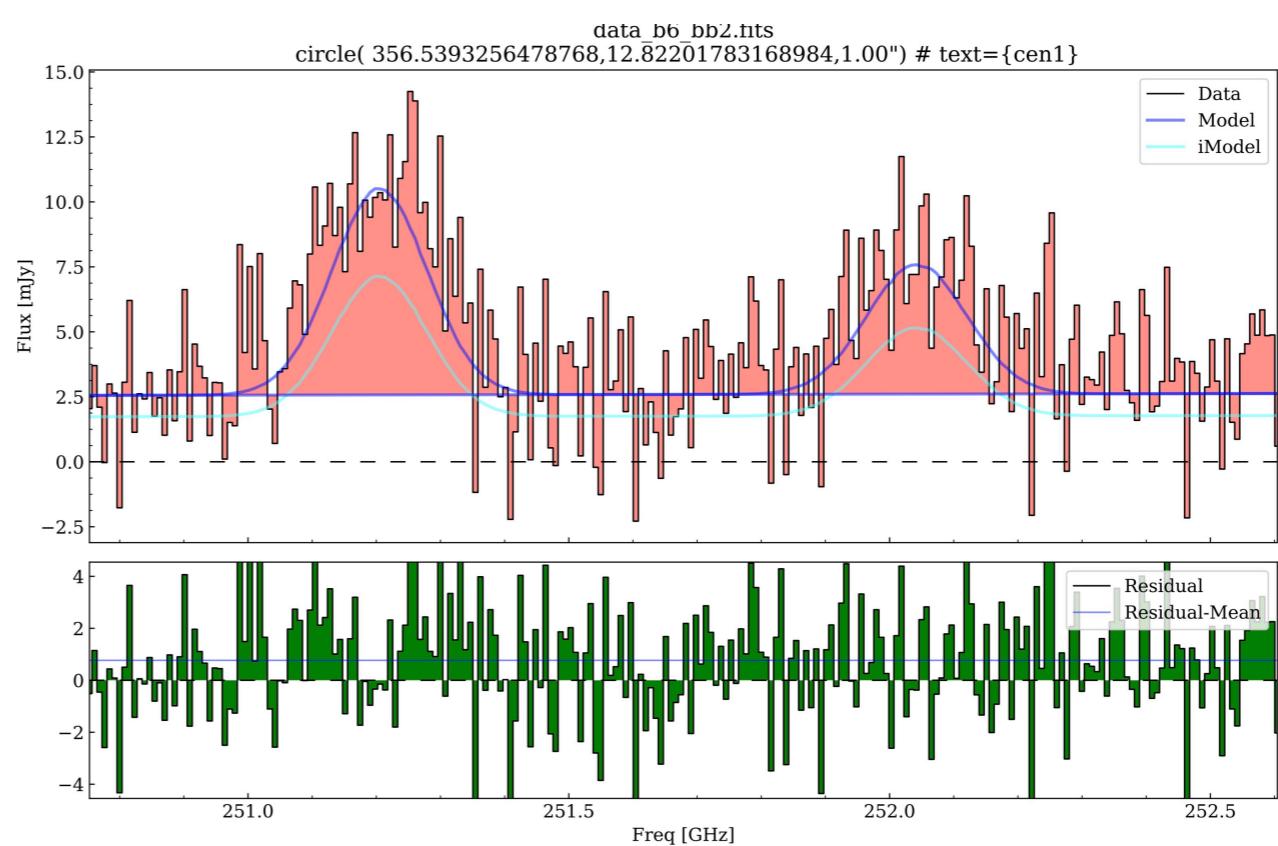
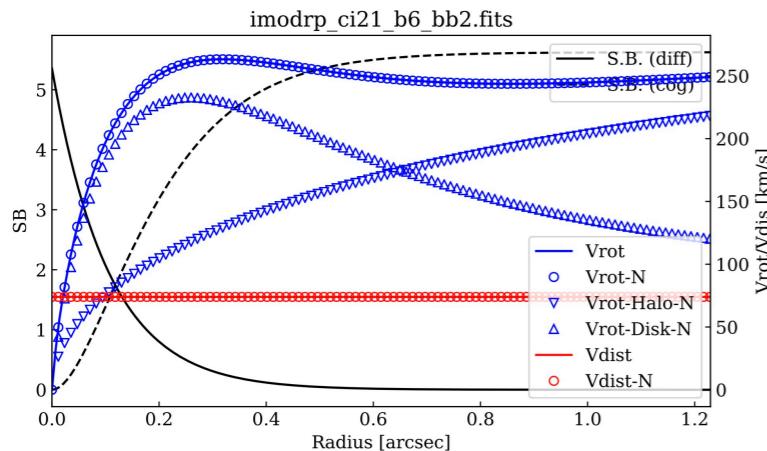
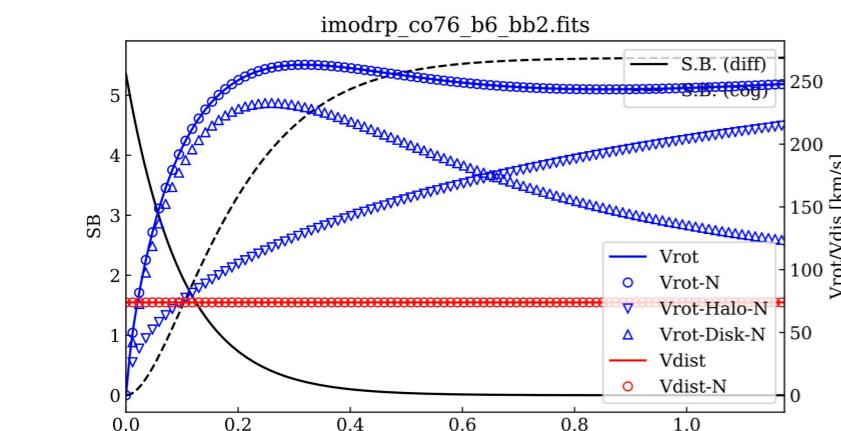
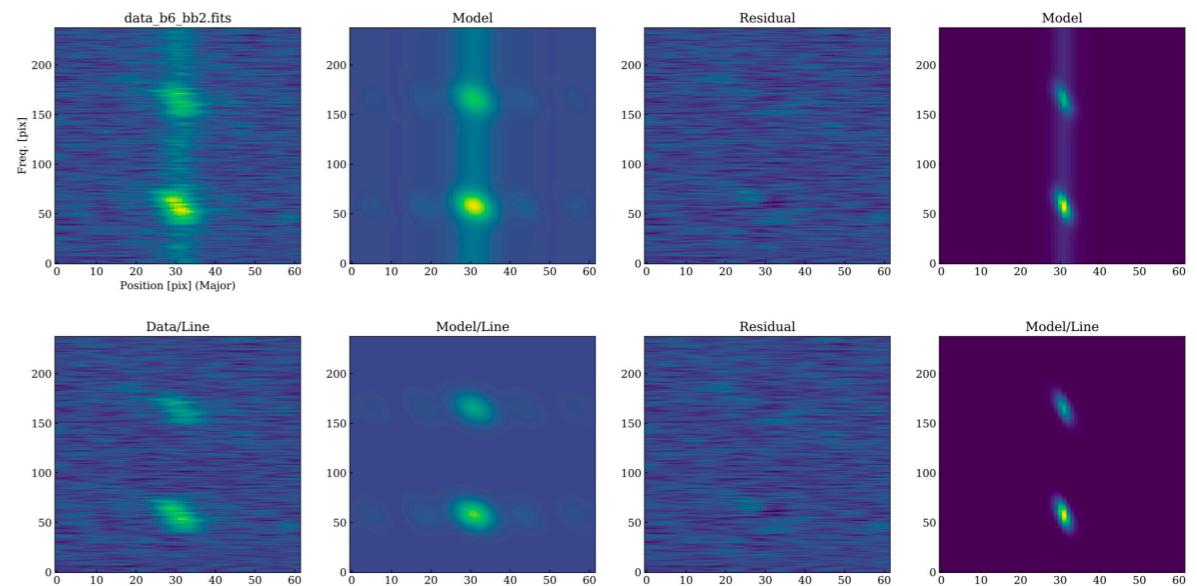
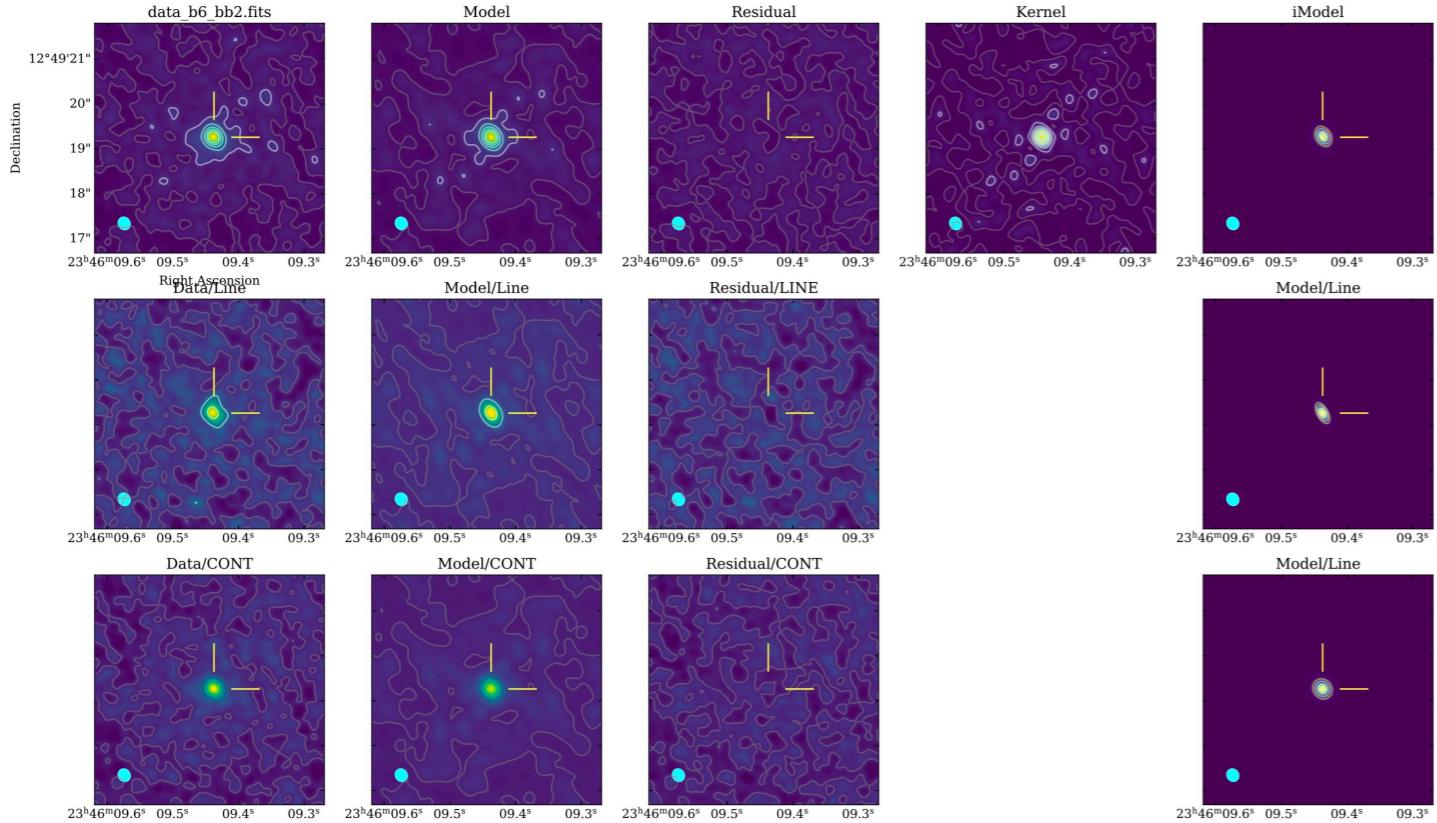


# scipy/brute (gridsearching)

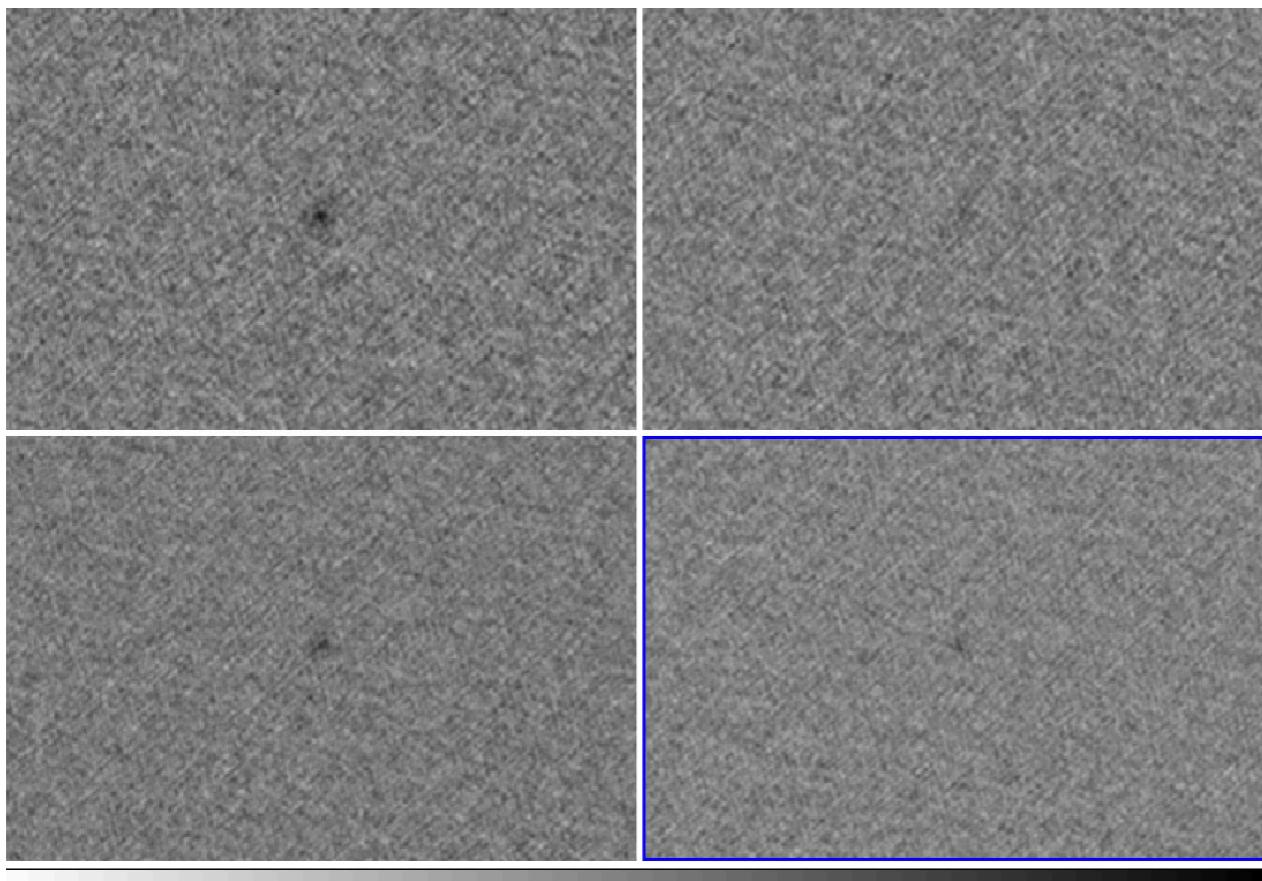
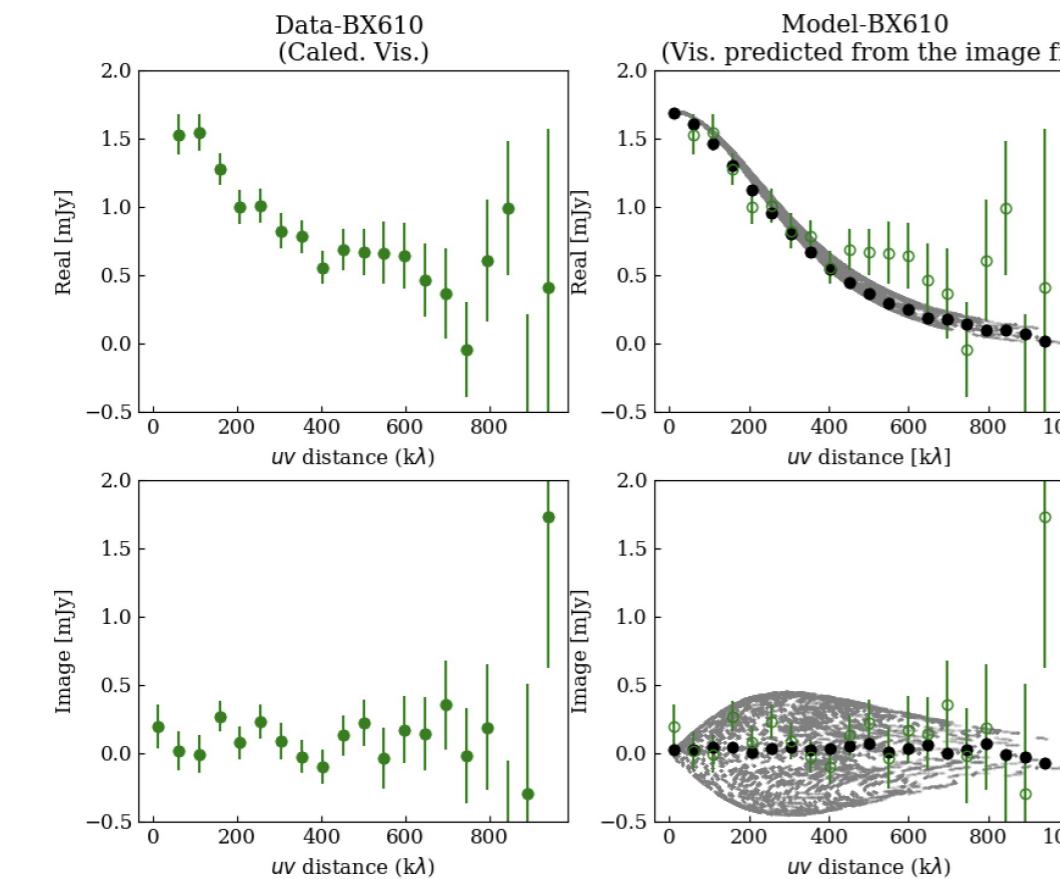


# emcee





# UV-domain



# ALMA 2017 Band4 (mfs image, CI10/CO43+cont)

