

# LNNB FBH unitcell mechanical modes

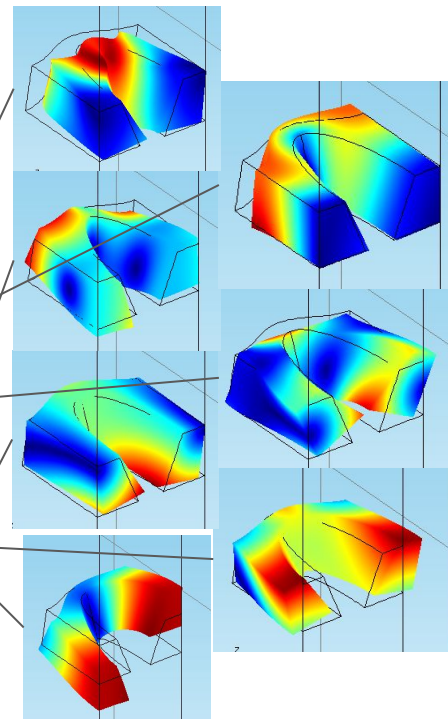
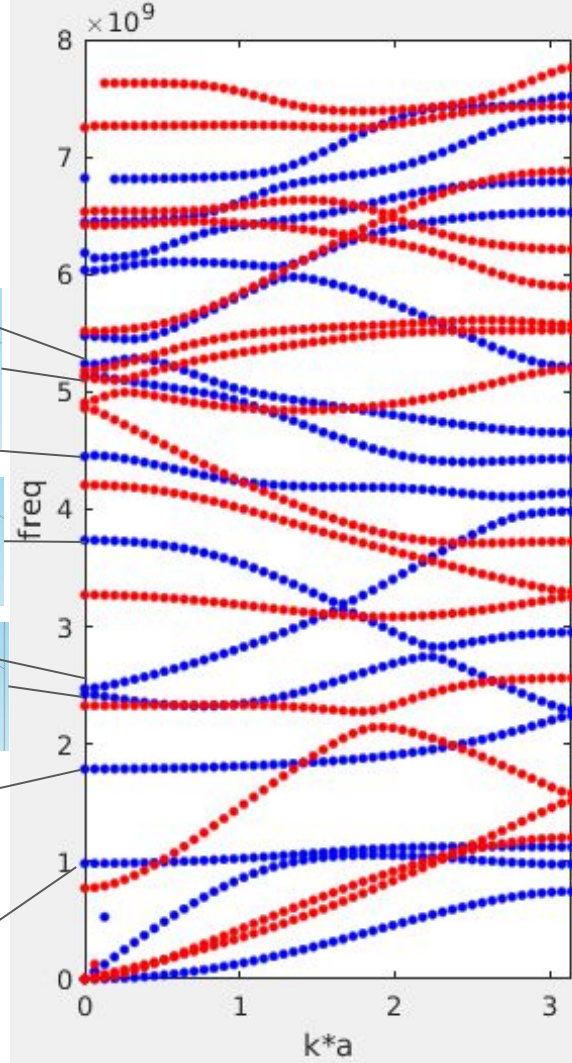
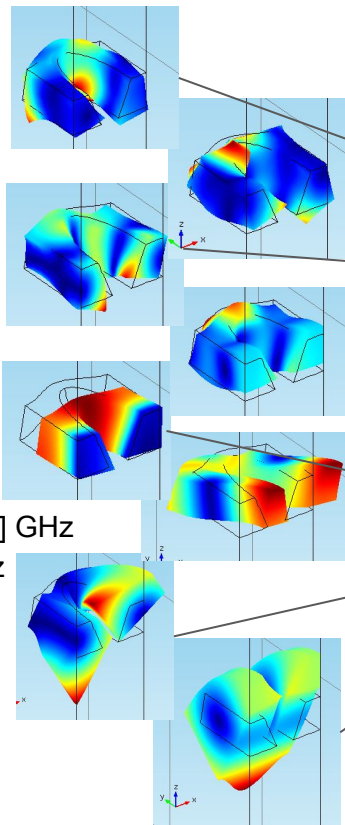
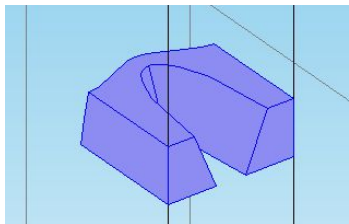
Wentao Jiang, 20181109

# GA 181107

- $a: 5.7244\text{e-}07$
- $t: 2.5000\text{e-}07$
- $w_{\text{max}}: 1.1620\text{e-}06$
- $w_{\text{min}}: 9.7032\text{e-}07$
- $h_x: 3.3570\text{e-}07$
- $h_y: 1.0019\text{e-}06$
- $\text{amp}: 4.7918\text{e-}08$
- $w: 1.0662\text{e-}06$
- **$f_{\text{band}}: 3.5841\text{e+}13$**
- **$f_{\text{mid}}: 2.0396\text{e+}14$**

sym mech bandgap: [1.129, 1.789] GHz

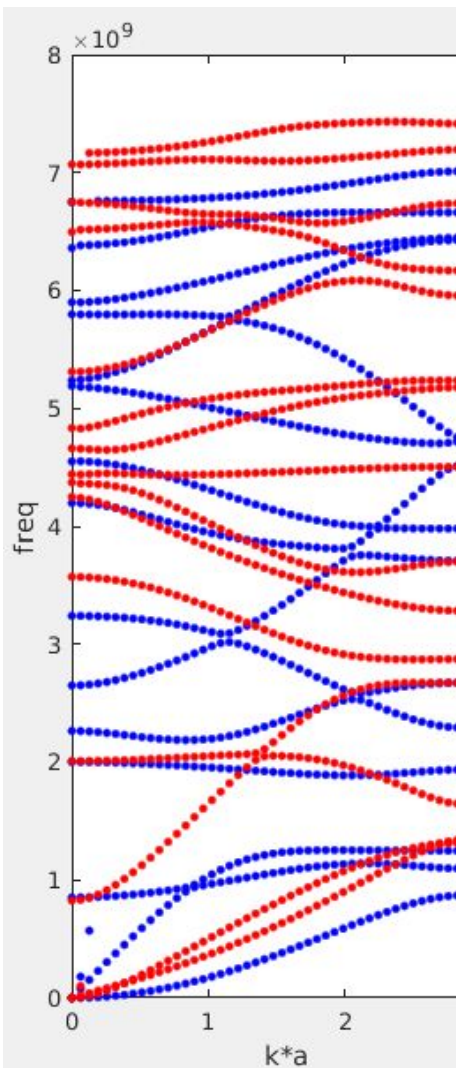
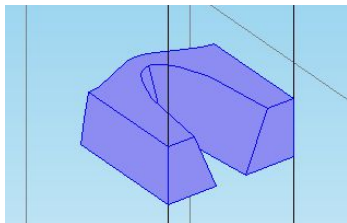
TE bandgap: [186.04, 221.89] THz



# GA 180707 modified

- a: 5.855e-07
- t: 2.5000e-07
- wmax: 1.2033e-06
- wmin: 9.724e-07
- hx: 3.465e-07
- hy: 9.02e-07
- amp: 8.60e-08
- w: 1.1372e-06

sym mech bandgap: [1.253, 1.887] GHz,  
TE bandgap: [180.8, 213.8] THz,  $f_{\text{band}} = 33$  THz



# 20181208, manual mirror,

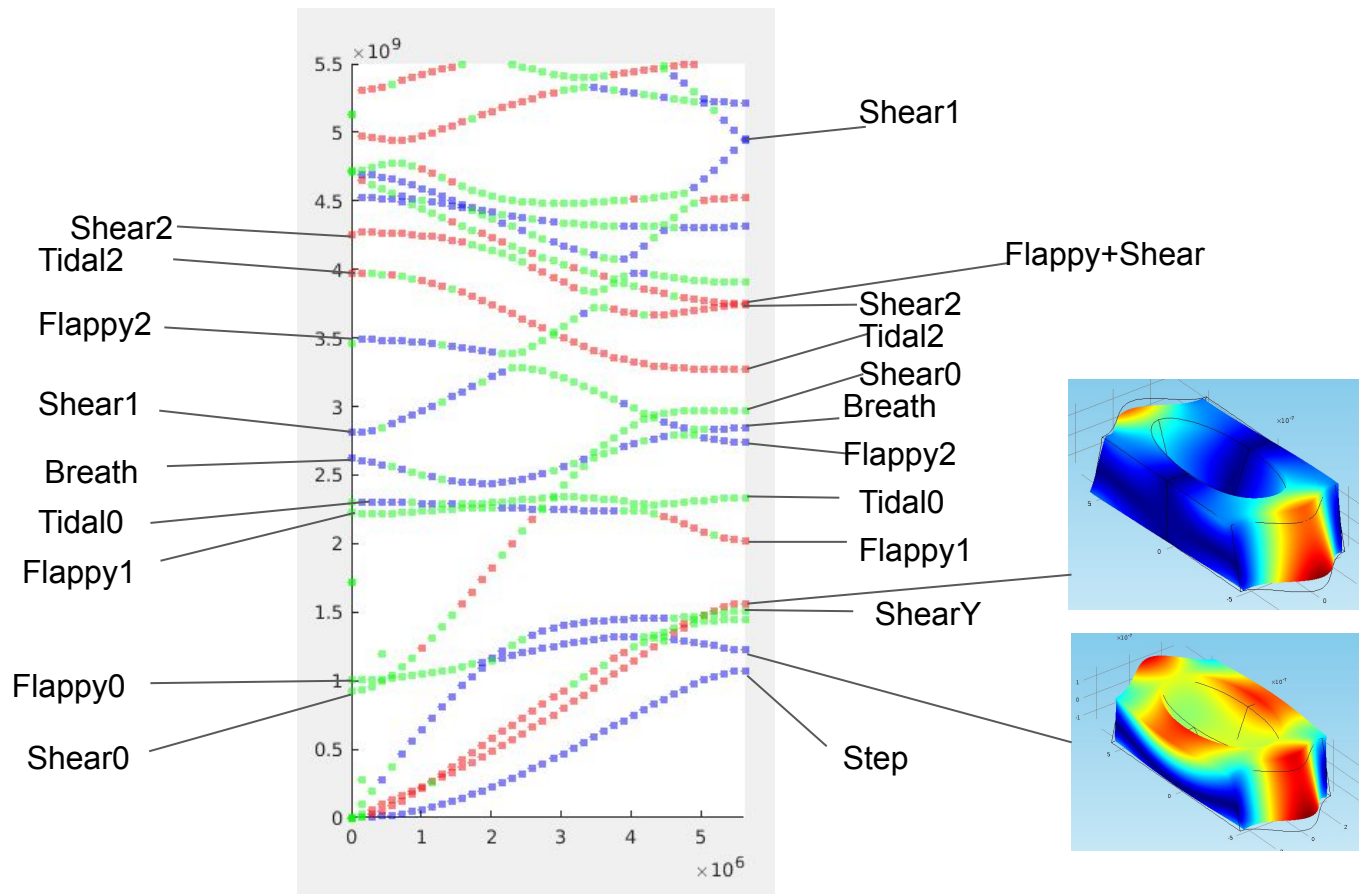
Flappy0

Flappy1?

ShearY

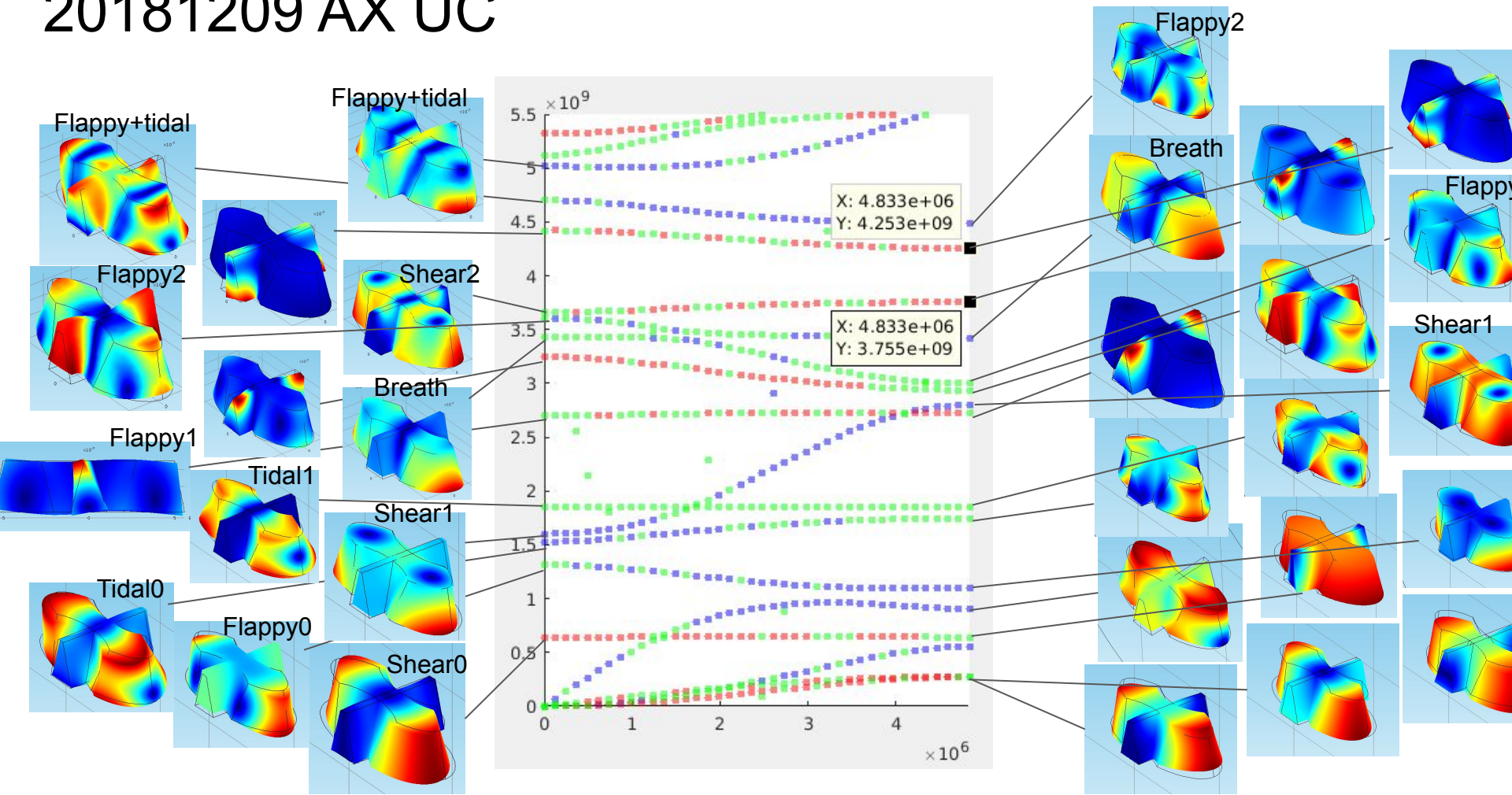
A diagram consisting of three short horizontal lines on the right, each with a longer line extending to the left. The lines are stacked vertically and point towards a common vertical region on the left side of the slide.

# GA 180722 mirror, LNX135 (45 deg in-plane)

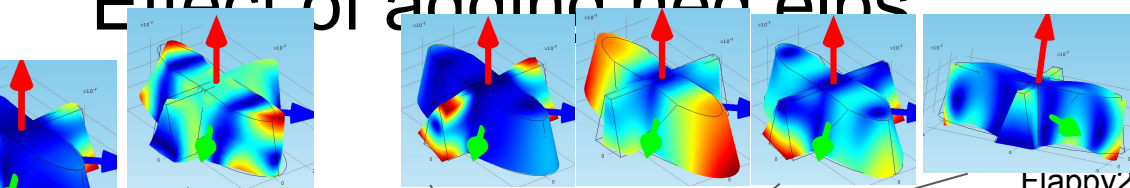




# 20181209 AX UC



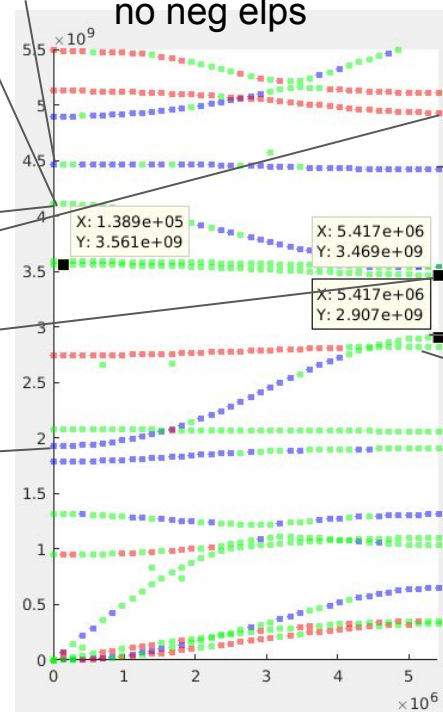
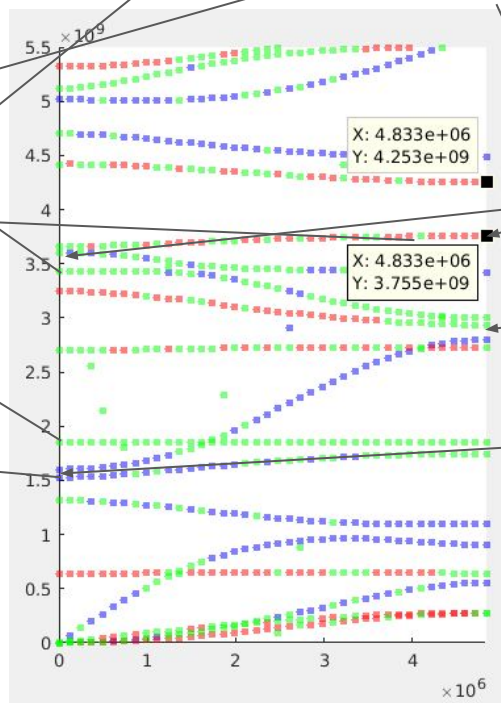
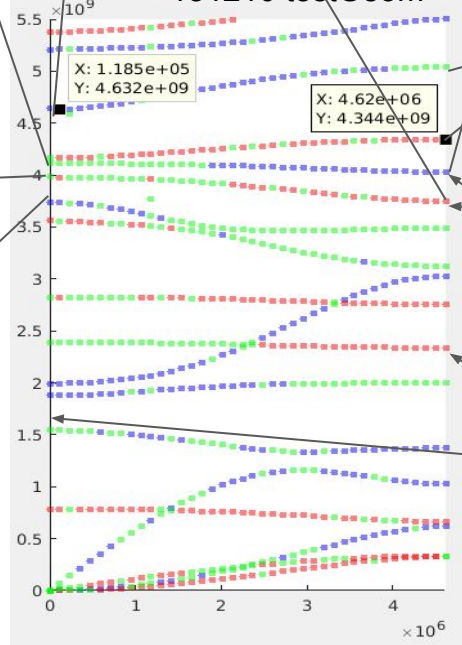
# Effect of adding neg elps



181210 testGeom

Flappy2

Flappy2+tidal  
no neg elps



Flappy2

Shear1

Flappy1

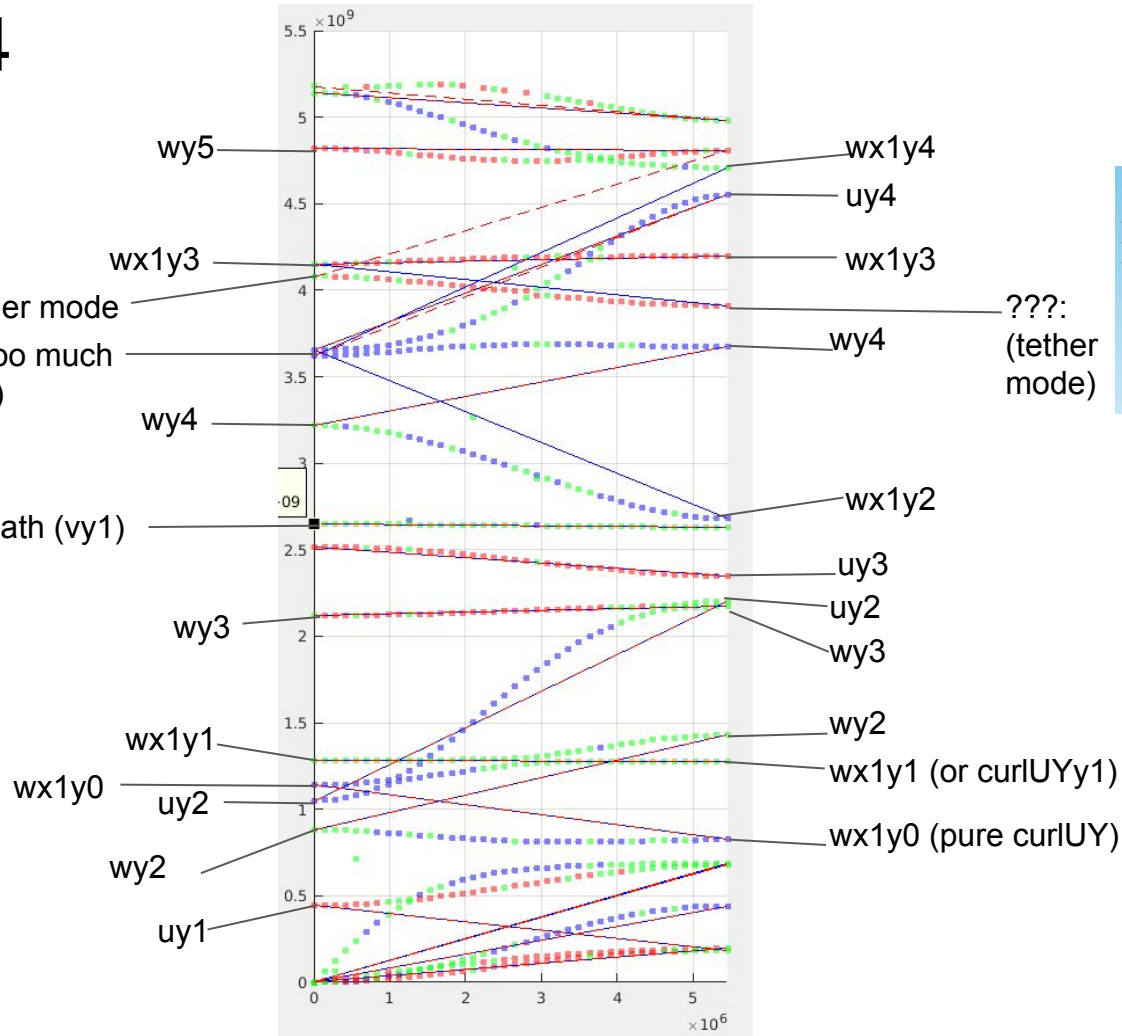
# GA 190104

w with node in x  
usually come with u  
(i.e., curlUY)

tether mode

hybridized too much  
(x1y4 + uy4)

Breath (vy1)



???:  
(tether mode)

