## Structural Deformation in CLIC modules

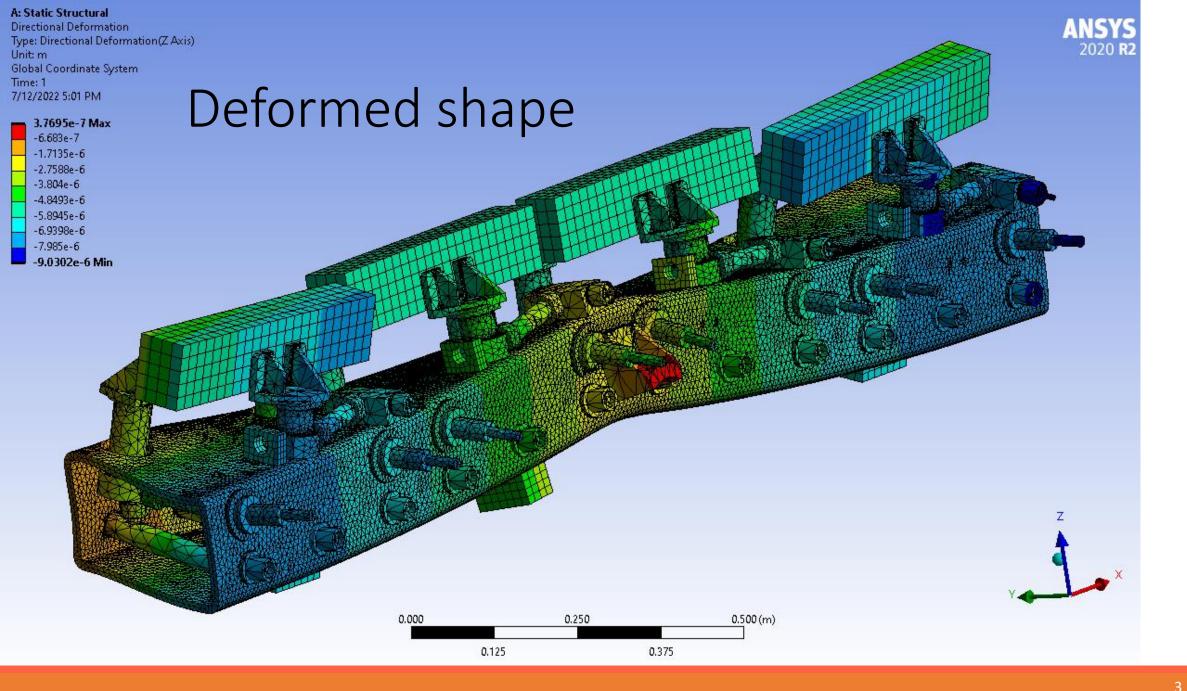
24<sup>th</sup> August 2022 Ryan Ghent

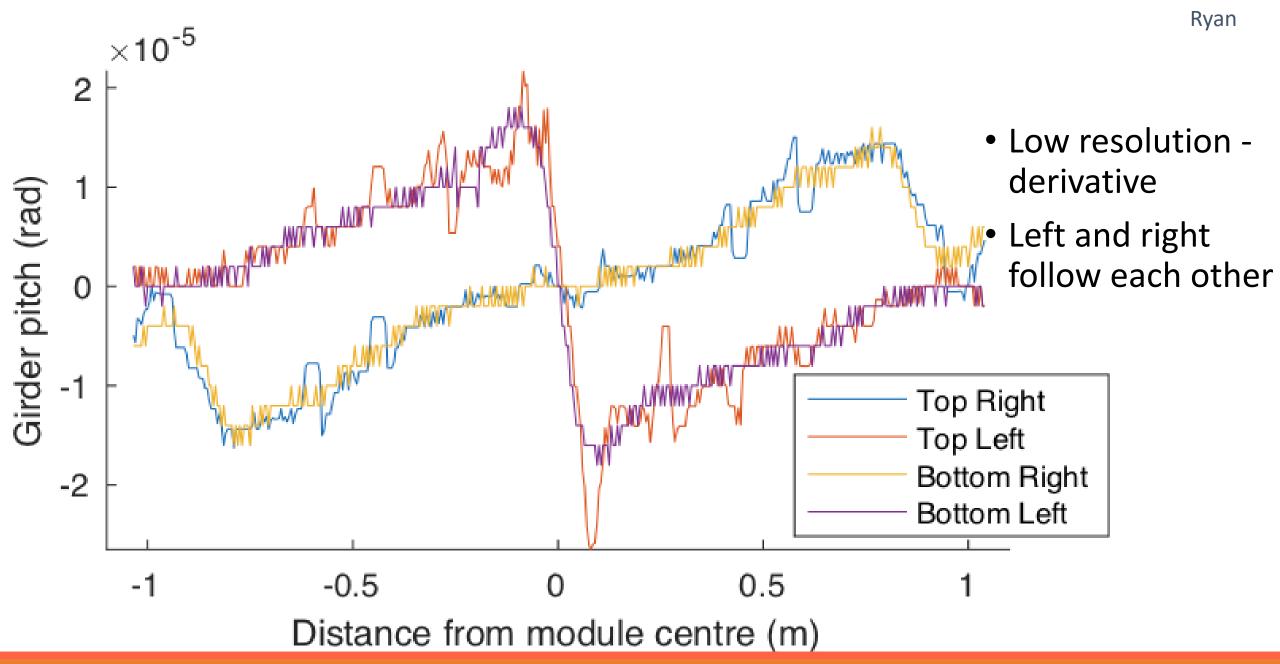


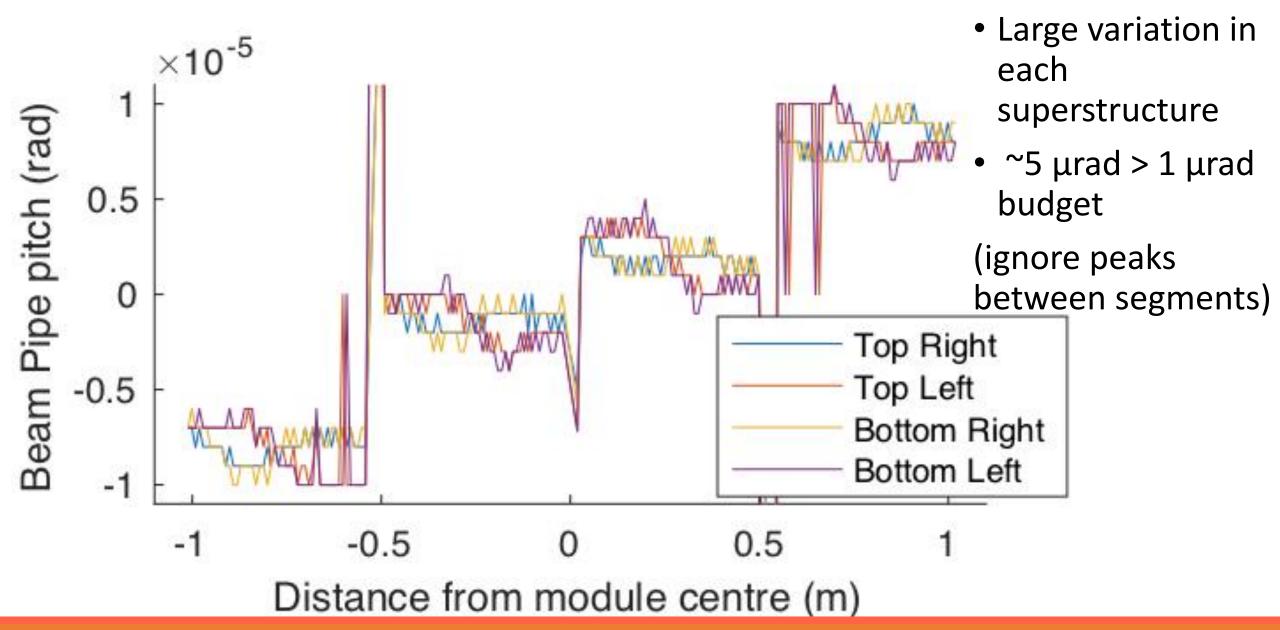


## Motivation for Alignment

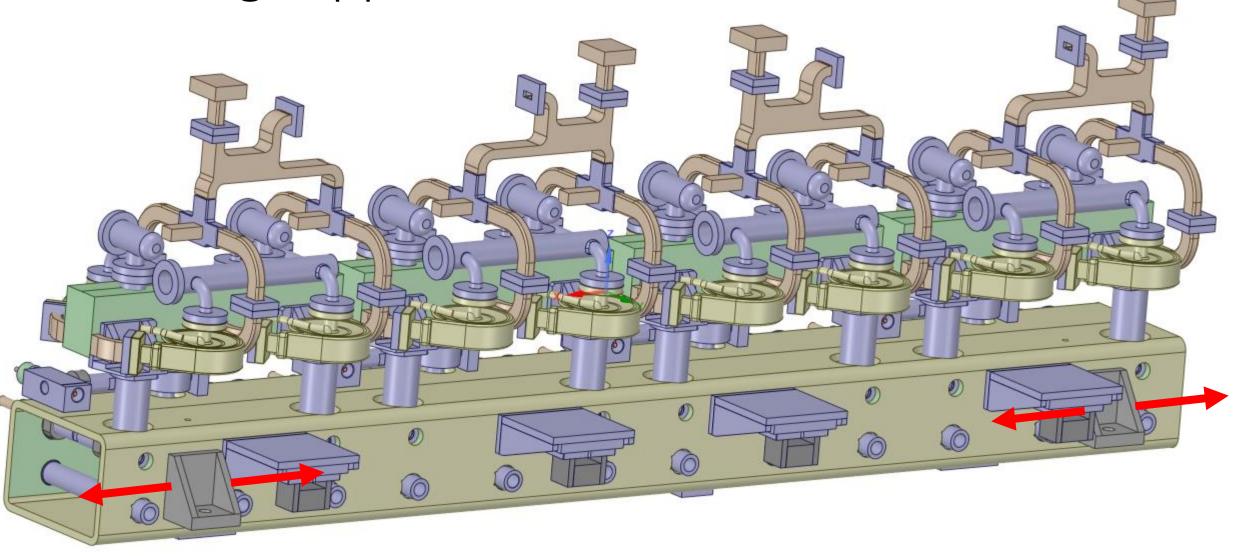
- Luminosity
- Pre-alignment systems (6 axis on each super-structure)

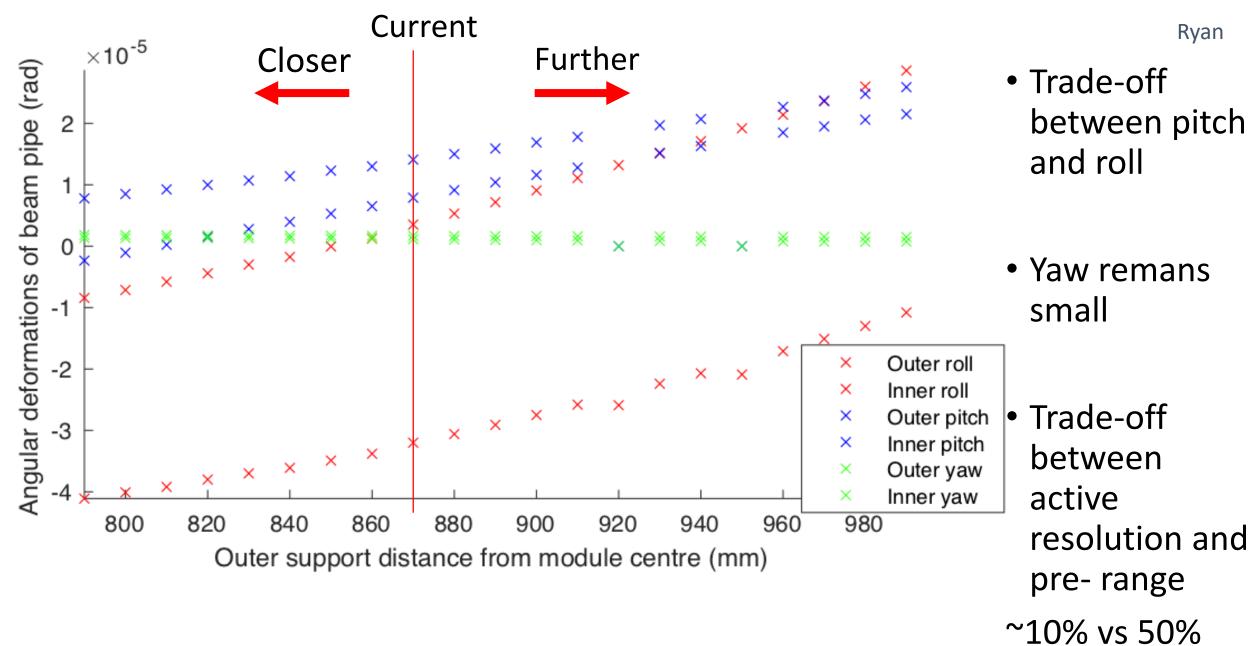




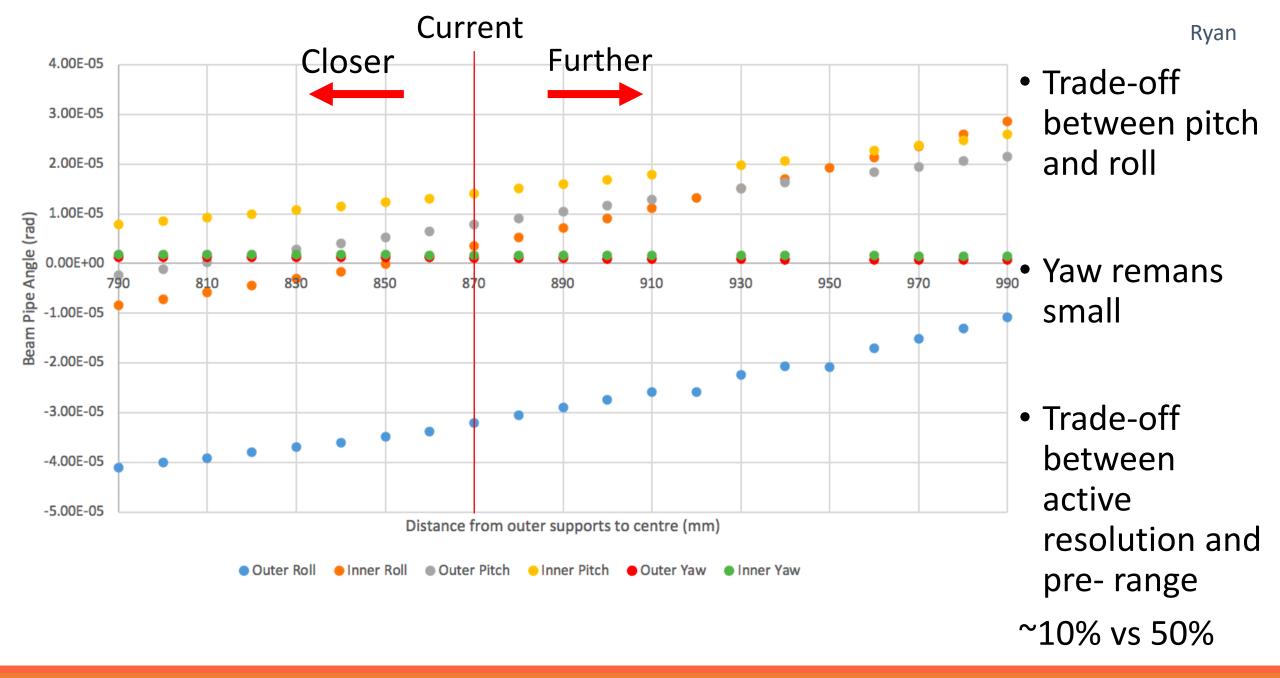


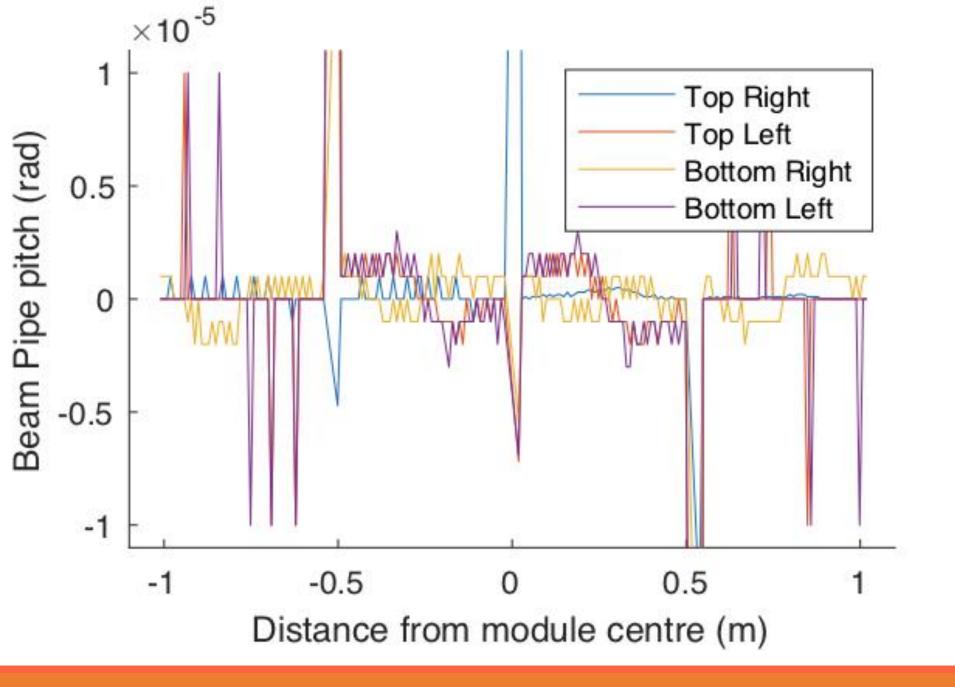
## Moving supports



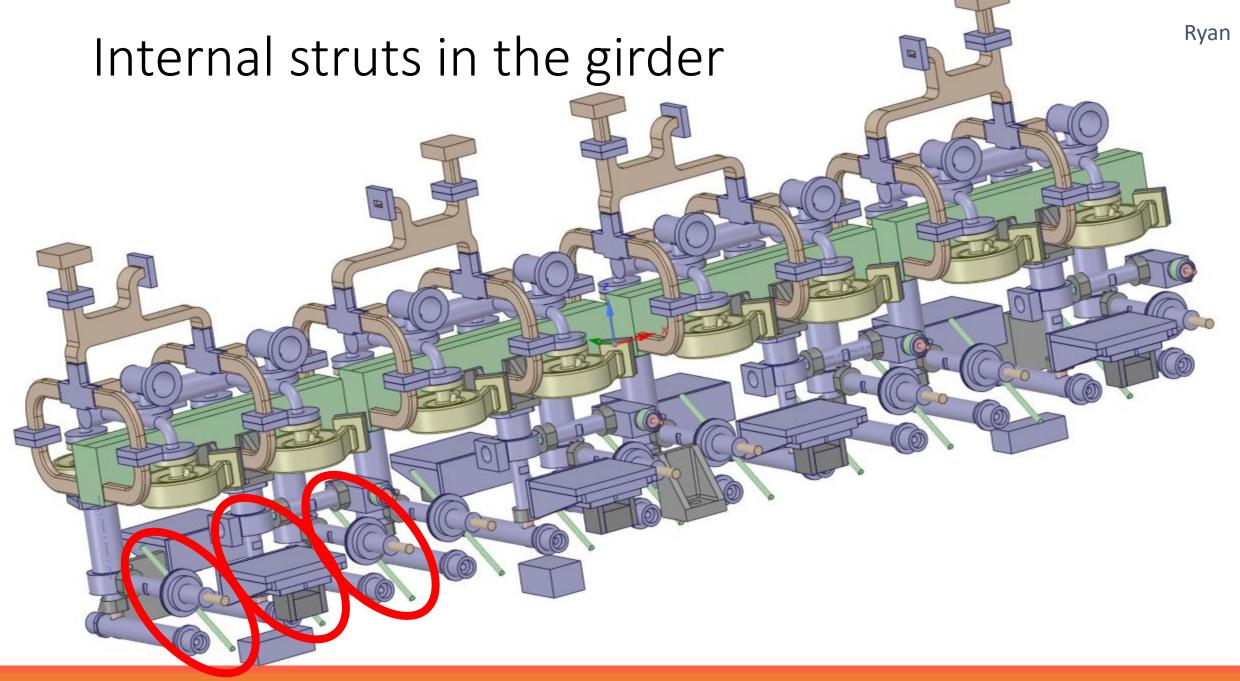


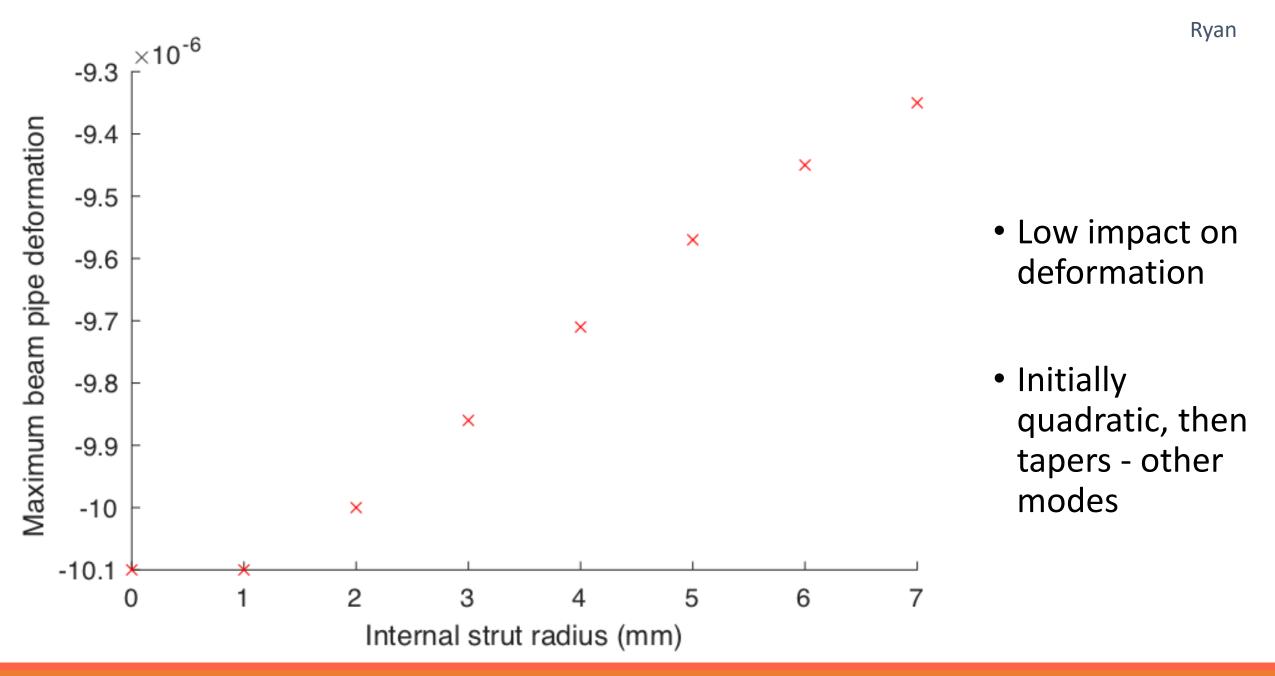
/0 VS JU/

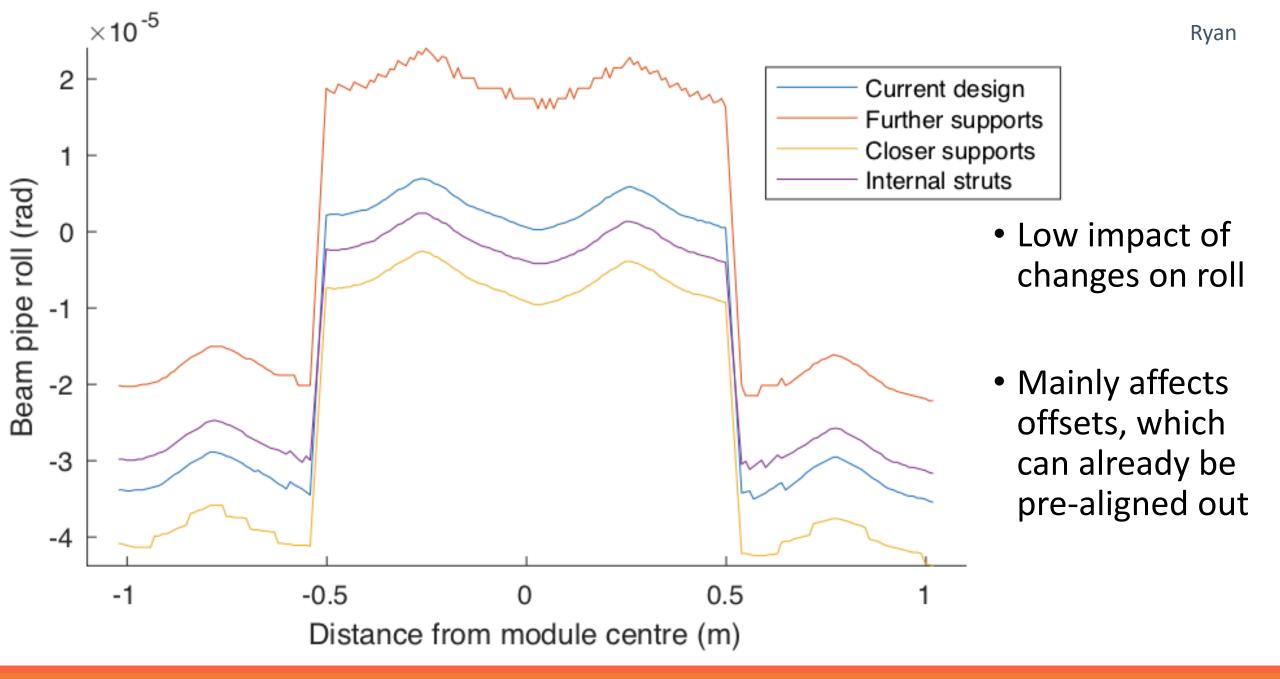


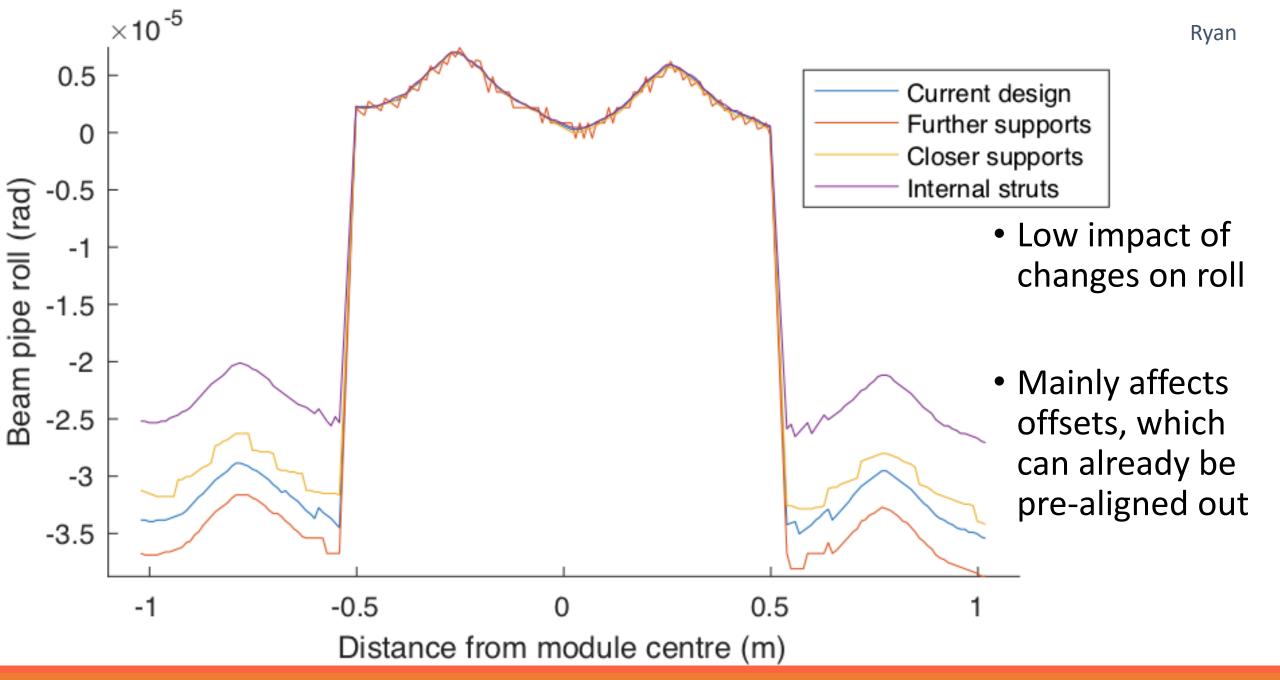


 Reduction just changing zero offset









## Conclusions

- Moving support locations or adding internal struts has little affect of beam pipe deformation and roll
- Pitch main concern, but method leaves unclear

