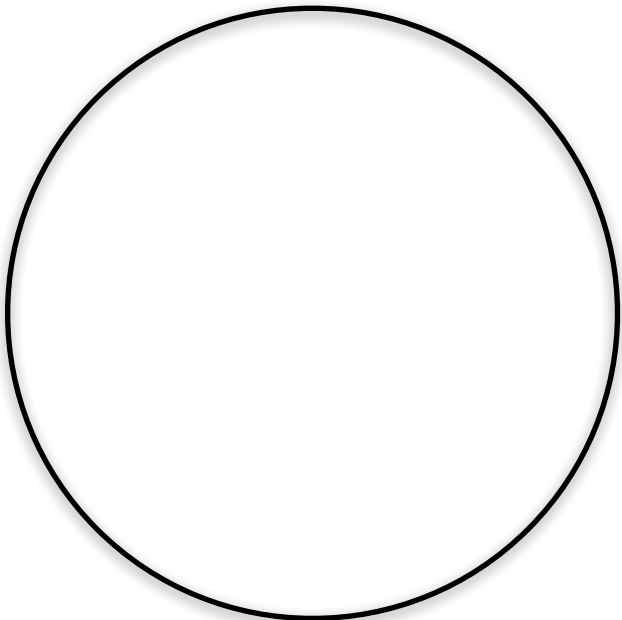




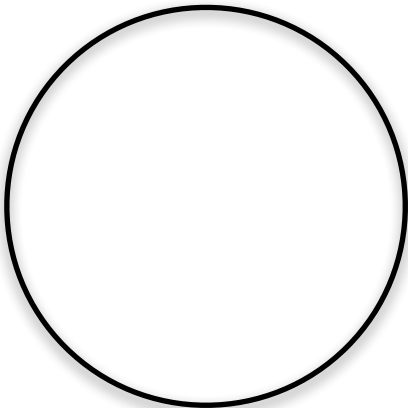
The University of Sydney

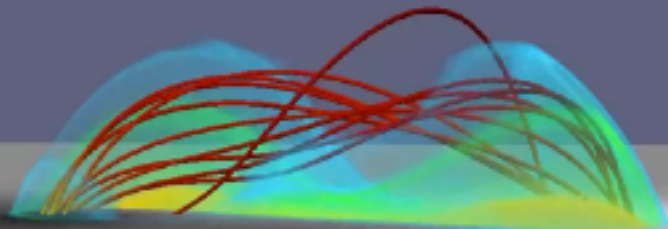
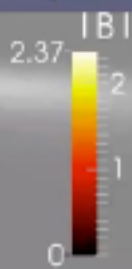
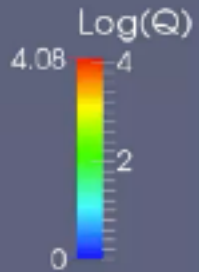


Applicative alternatives

- Apply the two definition of relative helicity to two cases based Titov-Démoulin model.
- Pseudo-emergence of magnetic flux rope by changing parameter of TD model.
- Eruptive case of TD model by using the result from [Mei et al. 2017](#)











$$L = 35 \text{ Mm}$$

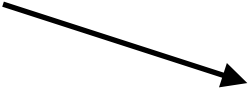
$$R = 110 \text{ Mm}$$

$$a = 23.9 \text{ Mm}$$

$$d = 135 - 1 \text{ Mm}$$

$$q = 40 \text{ T m}^2$$



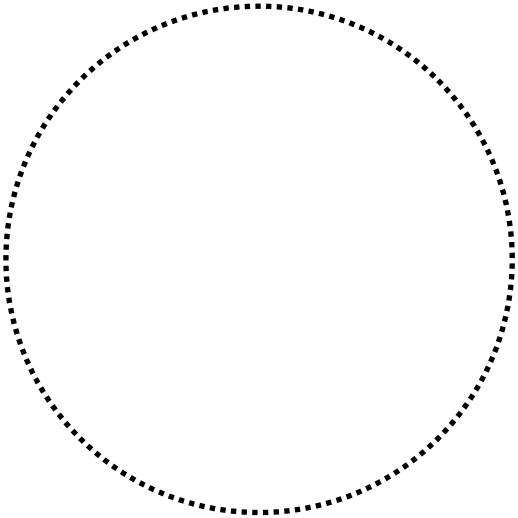




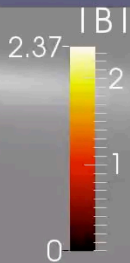
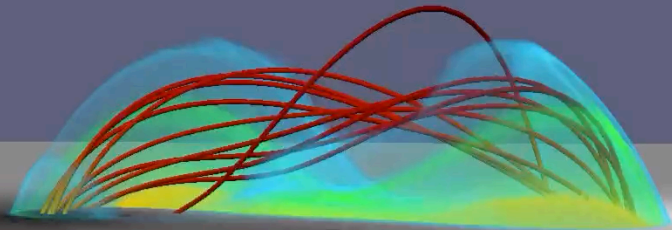


2

3







# Application on two cases

- Apply the two definition of relative helicity to two cases based Titov-Démoulin model.
- Pseudo-emergence of magnetic flux rope by changing parameter of TD model.
- Eruptive case of TD model by using the result from [Mei et al. 2017](#)

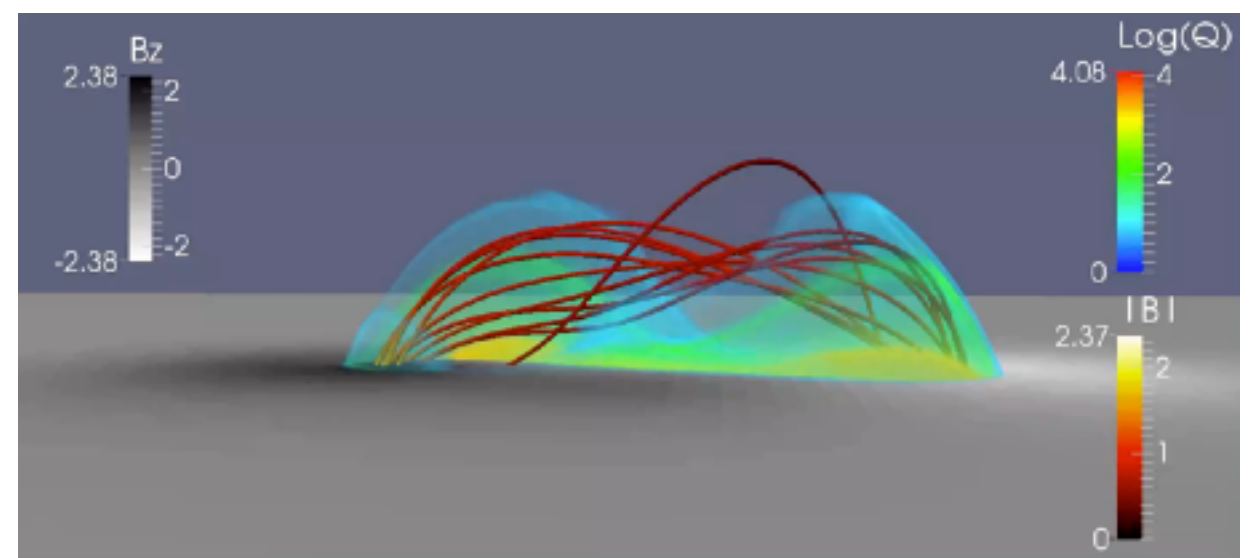
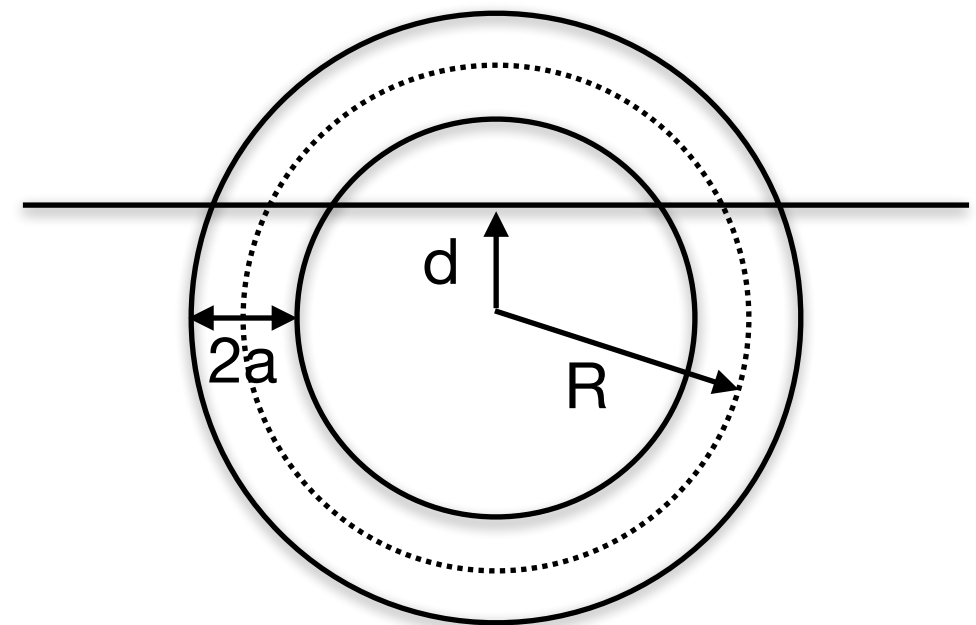
$$L = 35 \text{ Mm}$$

$$R = 110 \text{ Mm}$$

$$a = 23.9 \text{ Mm}$$

$$d = 135 - 1 \text{ Mm}$$

$$q = 40 \text{ T m}^2$$



# Case 1: Flux Rope Pseudo-emergence

