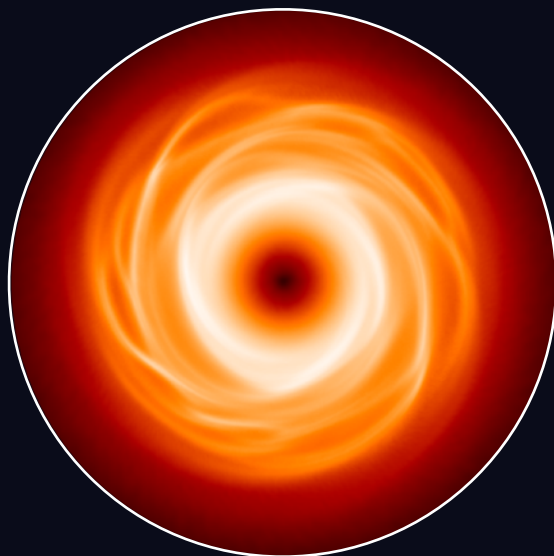


# SUPPRESSING GRAVITATIONAL INSTABILITIES IN SELF-GRAVITATING PROTOPLANETARY DISCS

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Scan or click here for  
more details with  
animations!



Going from a gravitationally  
unstable disc to a gravitationally  
stable disc by



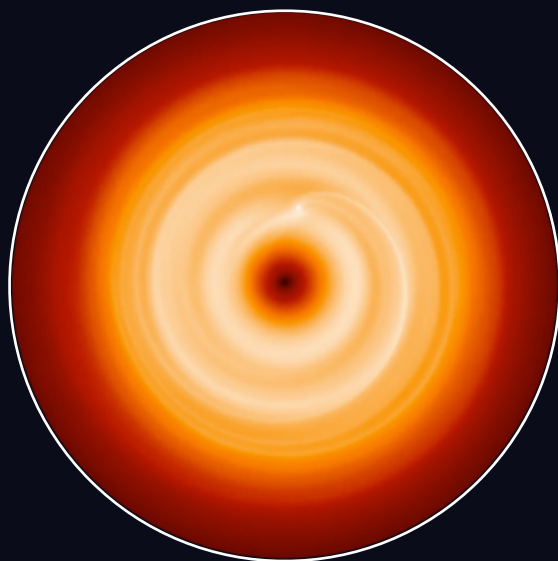
Warping the Disc

Rowther, Nealon & Meru 2021



Introducing a 3M<sub>Jup</sub> Planet

Rowther et al. 2020



Spiral structures due to gravitational instabilities are suppressed  
yielding an axisymmetric disc