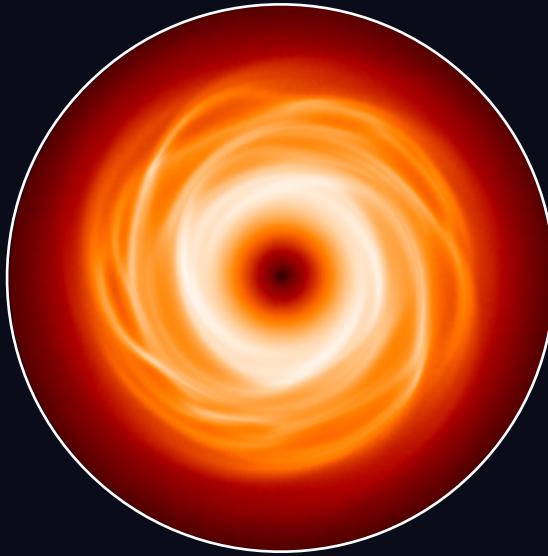


# SUPPRESSING GRAVITATIONAL INSTABILITIES IN SELF-GRAVITATING PROTOPLANETARY DISCS

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Scan or click here for  
more details with  
animations!



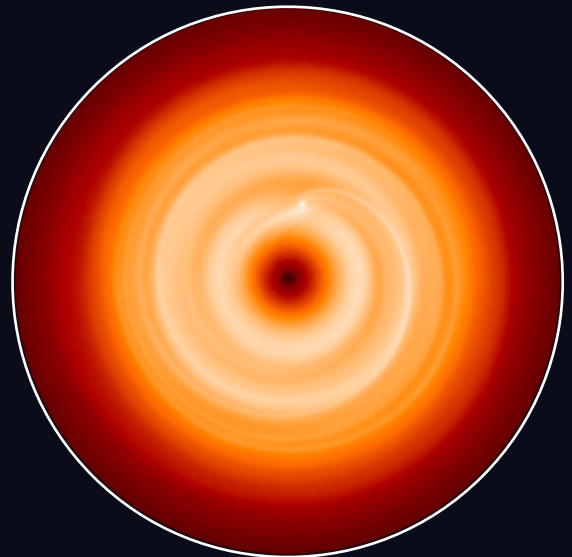
Evolution of a gravitationally  
unstable disc into a stable disc by

Warping the Disc

Rowther, Nealon & Meru (in prep)

Introducing a  $3M_{\text{Jup}}$  Planet

Rowther et al. 2020



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