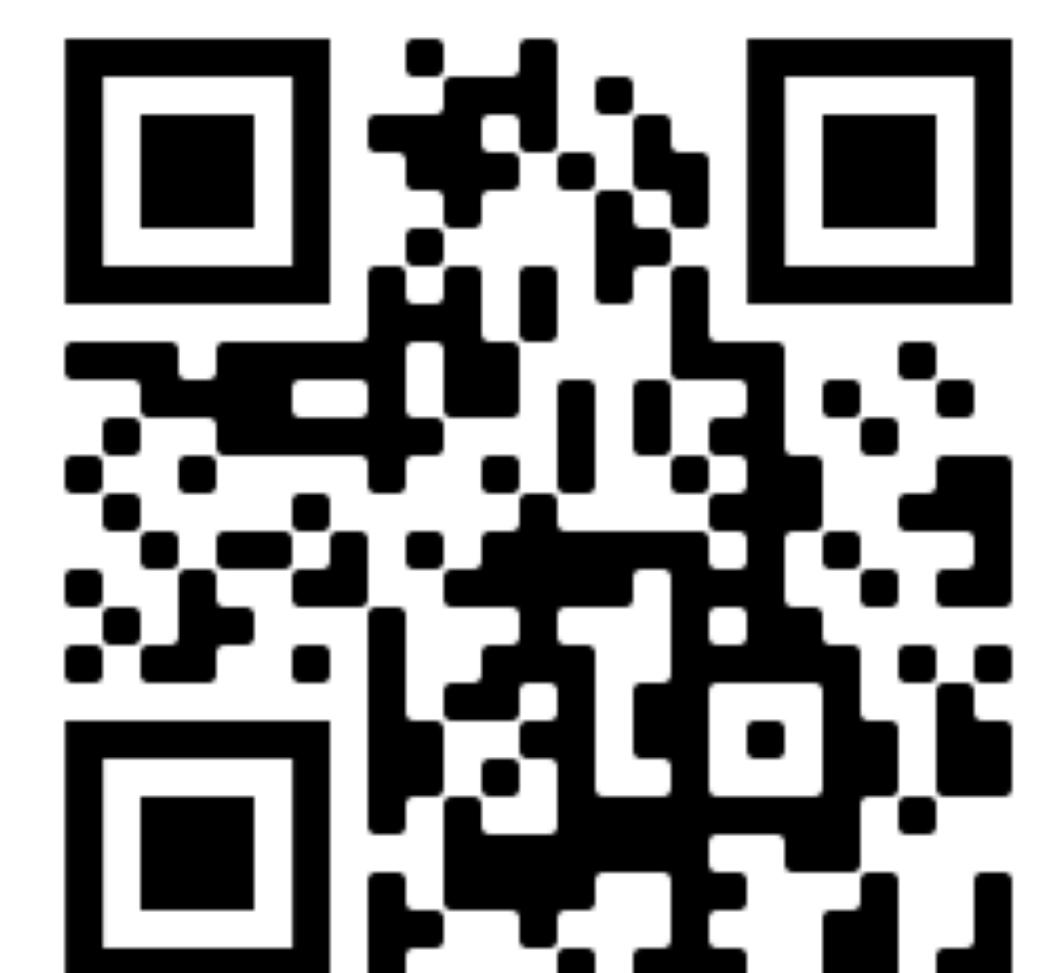
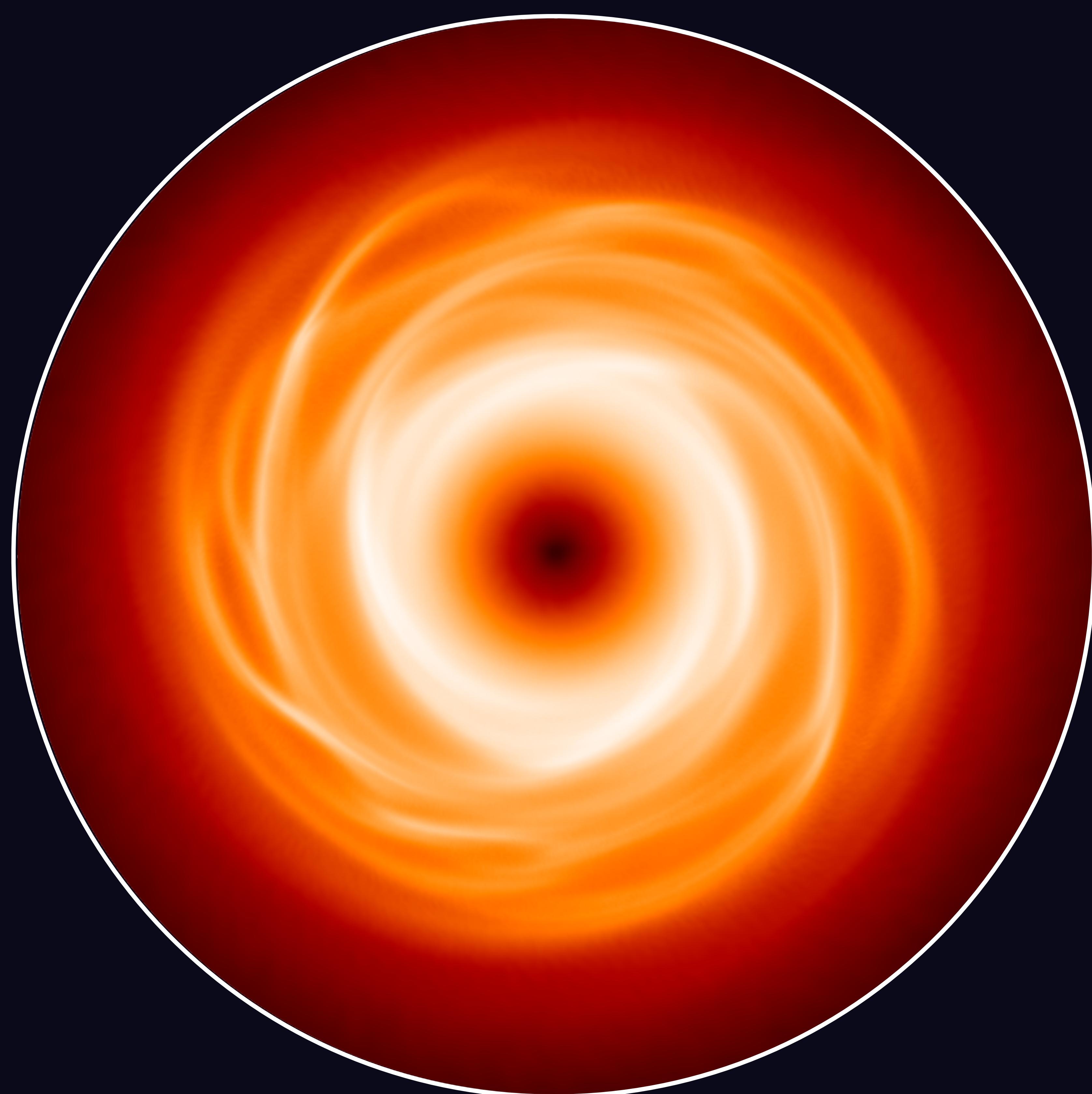


SUPPRESSING GRAVITATIONAL INSTABILITIES IN SELF-GRAVITATING PROTOPLANETARY DISCS

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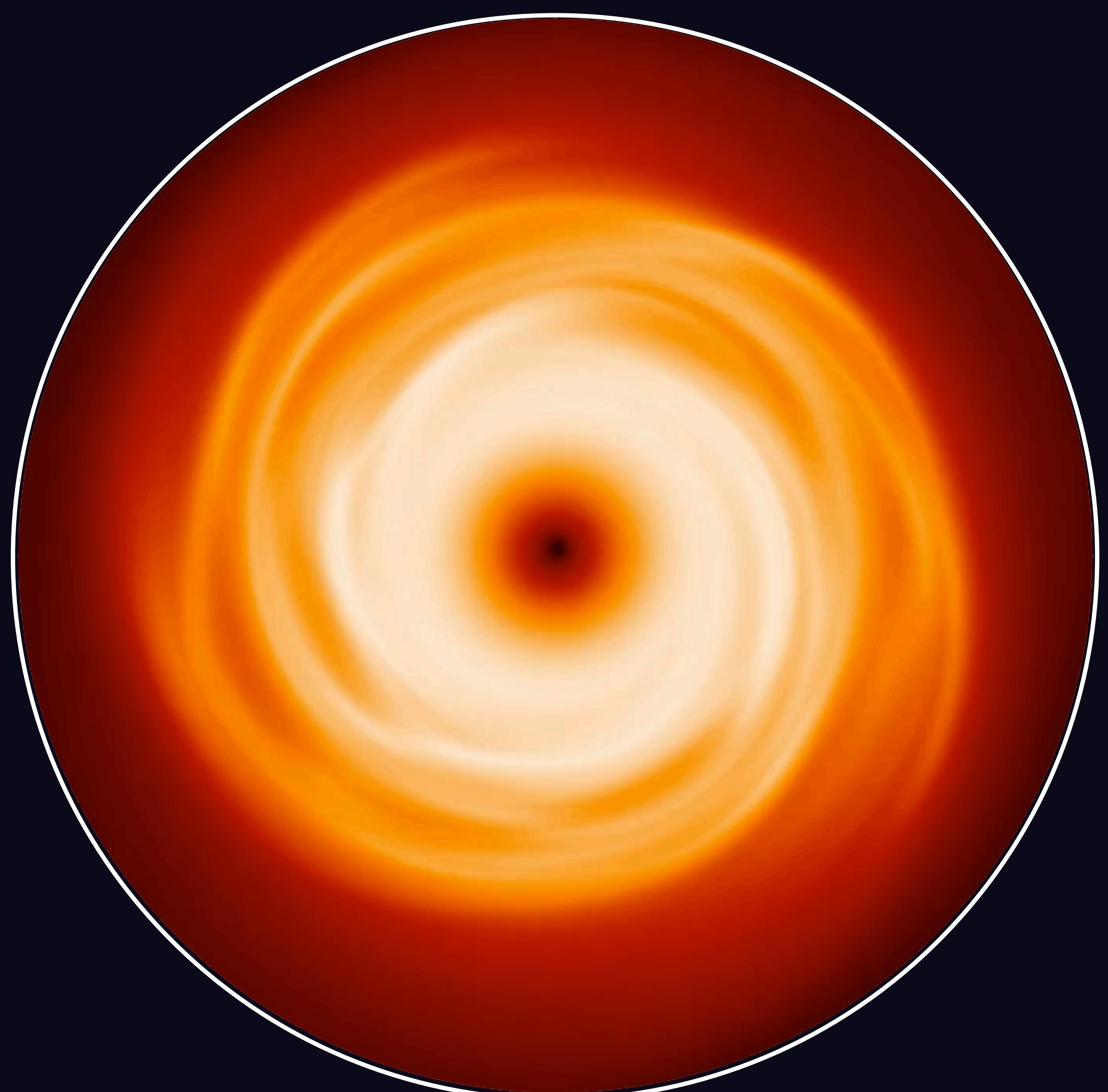
Scan or click [here](#) for
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animations!



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

Warping the Disc

Introducing a $3M_{Jup}$ Planet



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