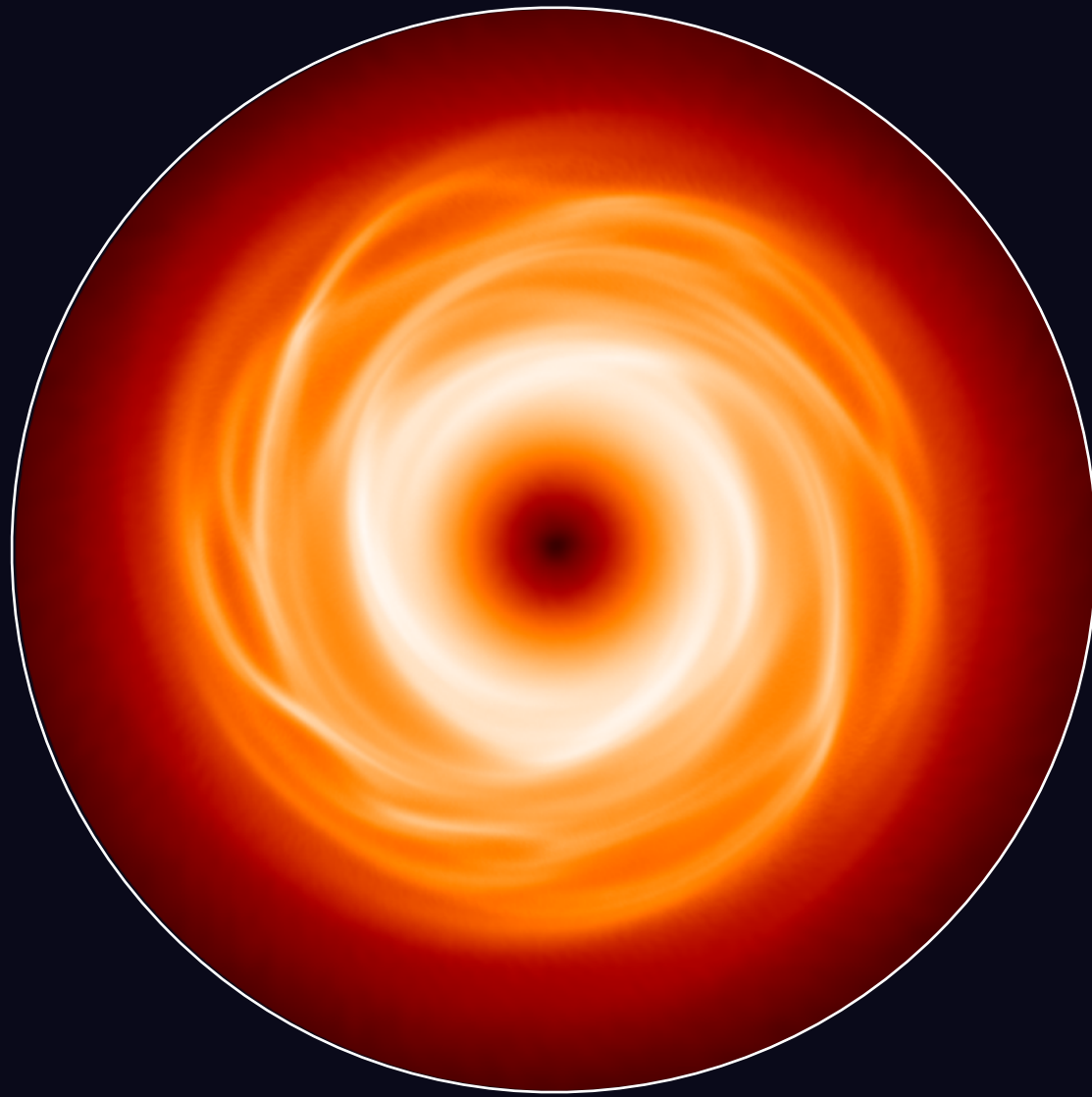


SUPPRESSING GRAVITATIONAL INSTABILITIES IN PROTOPLANETARY DISCS

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



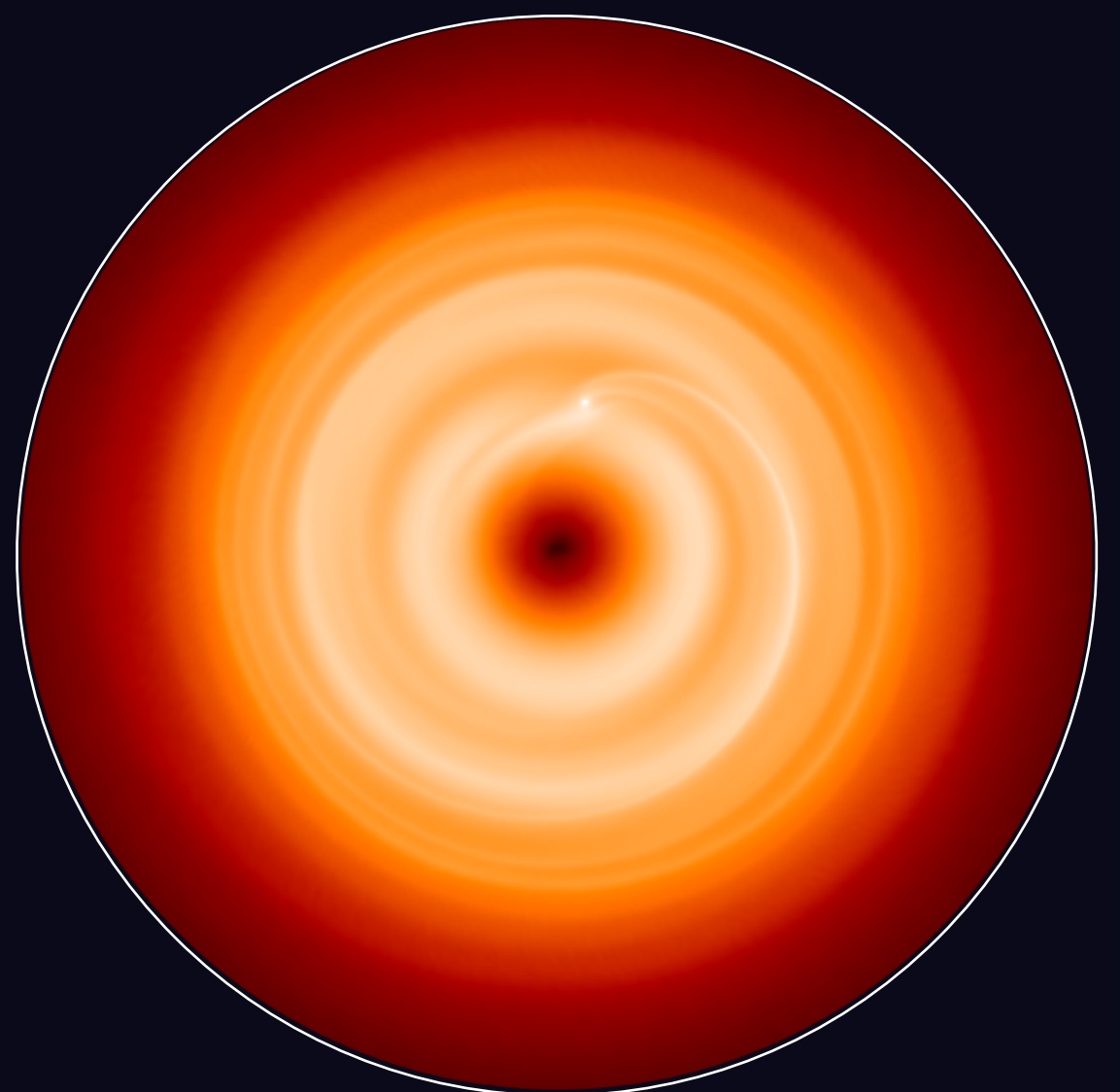
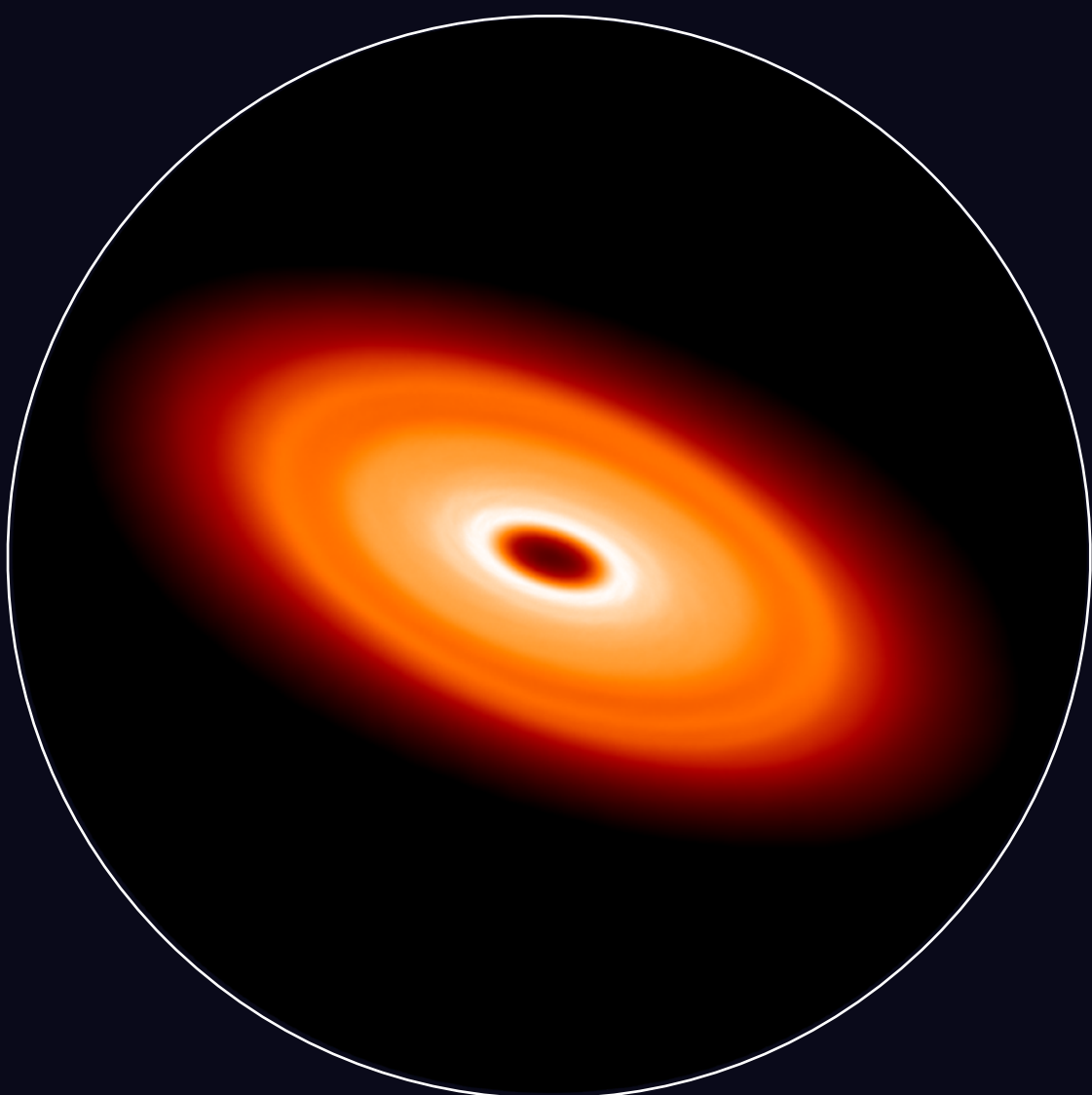
Evolution of a gravitationally
unstable disc into a stable disc by

Warping the Disc

Rowther, Nealon & Meru (2022)

Introducing a $3M_{Jup}$ Planet

Rowther et al. 2020



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