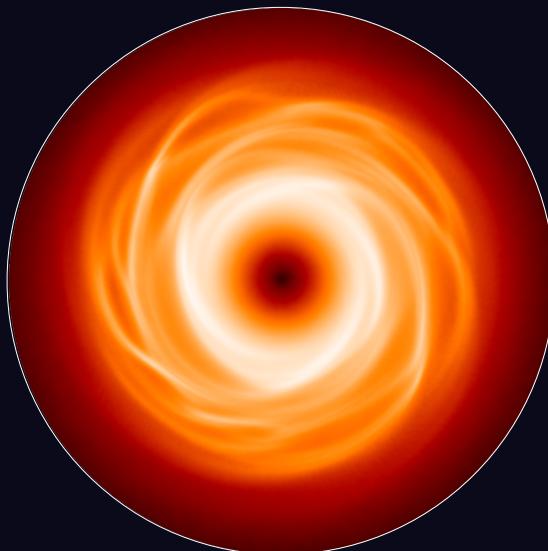


SUPPRESSING GRAVITATIONAL INSTABILITIES IN SELF-GRAVITATING PROTOPLANETARY DISCS

Sahl Rowther, Farzana Meru, Grant Kennedy, Rebecca Nealon, Christophe Pinte
sahl.rowther@warwick.ac.uk



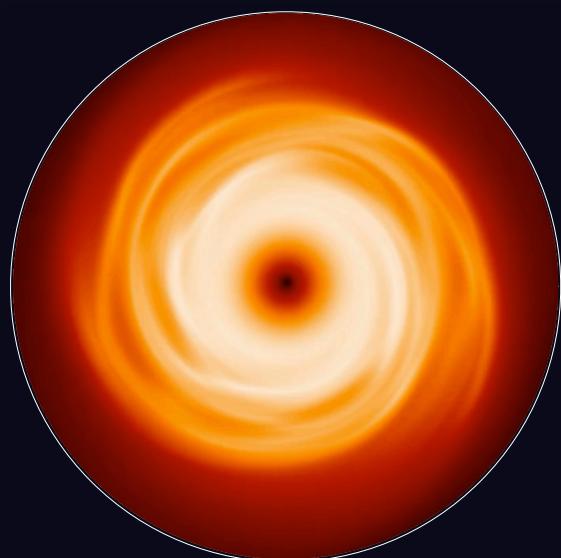
Scan or click [here](#) for
more details with
animations!



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*