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The effect of shaping on reversed field pinch dynamics

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A notable influence of the shape of the plasma on the dynamics of RFPs is clearly illustrated by simulations of fully nonlinear visco-resistive magnetohydrodynamics. The axial mode-spectrum is qualitatively changed in cylinders with elliptic cross-section. The results suggest that shaping will change, and possibly improve the confinement of RFPs.

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Primary author: Mr CHAHINE, Robert (LMFA, FrECL)

Co-authors: Dr MORALES, Jorge (ChCRPP, ChEPFL); Prof. SCHNEIDER, Kai (FrMTPT); Dr BOS, Wouter (LMFA, FrECL, FrCNRS)

Presenter: Mr CHAHINE, Robert (LMFA, FrECL)

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