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Nonlinear stability of elastic elliptical cylindrical shells under uniform bending

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**Highlights**

- Exploration of the nonlinear mechanics of behaviour under uniform bending.
- Rigorous computational exploration of elastic instability in elliptical cylinders.
- Covering all ranges of elliptical aspect ratios and qualitative length domains.
- Reference equation for Brazier ovalisation moment of elliptical cylinders presented.
- Closed-form algebraic characterisation offered for all practical geometries.

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