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Size-dependent axial instability of microtubules surrounded by cytoplasm of a living cell based sdient elasticity theory

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## Highlights

- Development an orthotropic size-dependent shell model for microtubules in a lining cell
- Prediction the size effects on axial instability of microtubules embedded in cytoplasm in a more comprehensive way
- Incorporating the both nonlocality and strain gradient size dependency simultaneously

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