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Modulational instability in fractional nonlinear Schrödinger equation

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Highlights

- The nonlinear spatiotemporal fractional Schrödinger equation is studied numerically.
- The spatiotemporal, spatial and temporal modulational instabilities in nonlinear fractional Schrödinger equation are studied.
- The impact of Lévy indexes on the gain spectra are disclosed.
- The theoretical predictions are verified numerically.

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