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Spatial solitons in biased photovoltaic photorefractive materials with the pyroelectric effect

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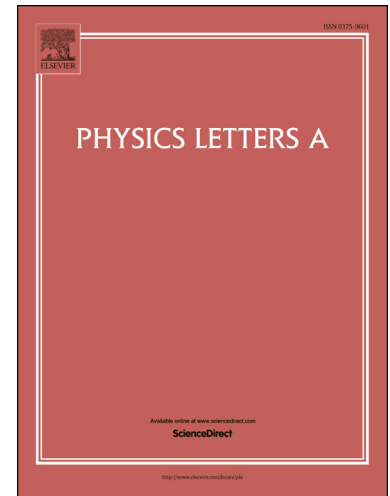
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## Highlights

- Effect of pyroelectric field on screening photovoltaic solitons is studied.
- Illumination induced pyroelectric field is considered for the first time.
- Self trapping depends on external, pyroelectric and photovoltaic space charge field.

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