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Nonlocal effects in waveguide arrays with PT-symmetric defects

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ABSTRACT

In this work, we reveal that effective nonlocality of PT-symmetric structures with gain and loss elements can lead to pronounced differences for optical beam dynamics in arrays of coupled waveguides with the same characteristics but different topology.

INDEX TERMS

- **IEEE terms**
Optical coupling , Photonics
- **INSPEC**
 - **Controlled Indexing**
optical waveguides
 - **Non Controlled Indexing**
PT-symmetric defects , coupled waveguides , gain elements , loss elements , nonlocal effects , optical beam dynamics , waveguide arrays

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