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Localized vibrational modes in diamond

R.T. Murzaev, D.V. Bachurin, E.A. Korznikova, S.V. Dmitriev

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Highlights

- Molecular dynamics simulation of discrete breathers in diamond was performed.
- Single and double discrete breathers had relative long lifetime.
- Energy exchange between neighboring discrete breathers was found.
- Hard type of nonlinearity was observed for all considered discrete breathers.

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