## One-dimensional Bose-Hubbard model with local three-body interactions

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## Abstract

The extended Bose-Hubbard model with local two- and three-body interactions is studied by the exact diagonalization approach. The shapes of the first two insulating lobes are discussed and the values of the critical tunneling for which the insulating phase loses stability for repulsive and attractive three-body interactions are predicted.

## References

[1] T. Sowiński, Phys. Rev. A 85, 065601 (2012)