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Geometrical properties of interior segments of two-dimensional lattice polymer confined in a square box

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***Highlights (for review)**

¢°A two-dimensional lattice polymer fully confined in a square box is studied.
¢°Geometric properties of interior segments resemble those of a chain at θ-point.
¢°Interior segments are more swollen than random chains.
¢°We used exact enumeration and the maximum chain length is 64.