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Global Results in Space of Inter-Monomer Interactions for HP Lattice Model

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<u>Abstract:</u> Using the ground state candidates for Hydrophobic-Polar lattice model on a two dimensional square lattice, we exactly enumerate the native states of proteins with length up to 20 for a wide range of energy parameters. We find the reduced set of contact maps, ground state candidates, perfectly stable sequences and designability of configurations.



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Page

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