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ON THE ESSENTIAL SPECTRUM OF A FOUR-PARTICLE SCHRÖDINGER OPERATOR ON A LATTICE

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The Hamiltonian of a system of four arbitrary quantum particles with three-particle short-range interaction potentials on a three-dimensional lattice is examined. The location of the essential spectrum of this Hamiltonian is described by Faddeev's equations.

Key words and phrases: Schrödinger operator, Faddeev's equations, essential spectrum, compact operator, positive operator.

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