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Mathematical Physics

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We show that bosons interacting via pair potentials with negative scattering length form bound states for a suitable number of particles. In other words, the absence of many-particle bound states of any kind implies the nonnegativity of the scattering length of the interaction potential.

Absence of bound states implies non-

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negativity of the scattering length

Comments: LaTeX, 6 pages; minor corrections, remarks and references added Subjects: Mathematical Physics (math-ph); Quantum Gases (cond-mat.guant-gas); Spectral Theory (math.SP)

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