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An Exactly solvable model for Strontium Copper Borate: Mott Hubbard Physics on an Archimedean Lattices

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An exactly solvable model of spin half particles on a certain 2-dimensional frustrated lattice has been recently realized in the compound \textit{SrCu}_2\textit{(BO}_3\textit{)}_2, and other similar systems have been found more recently. These systems appear to be ideal testing grounds for contemporary theoretical ideas on the role of correlations and frustration in Mott Hubbard systems. In this talk I will summarize the work on these systems emphasizing their role in testing key concepts.

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