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## Ground state phases of quantum spin systems

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Much of what we know about the ground states of quantum spin Hamiltonians is derived from the exact solutions that can be found for two special classes of models : the Bethe Ansatz solvable models and the class of models with frustration free ground states. I will review recent results that complement the information derived from exact solutions with the primary goal of developing a qualitative theory of gapped ground state phases of quantum spin systems.

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