Geometric correlation inequalities for spin systems

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I will review correlation inequalities for the two-point function of classical and quantum spin systems. These inequalities are "geometric" when they involve lattice sites. I will review the Simon-Lieb-Rivasseau, Messager-Miracle-Sole, and Lees-Taggi inequalities. I will point out that the Messager-Miracle-Sole inequalities can be extended to the spin-1/2 quantum XY model.

Orateur: UELTSCHI, Daniel (University of Warwick)