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Title: Spectral gaps without frustration

Abstract: In spin systems, the existence of a spectral gap has far-reaching consequences. "Frustration-free" spin systems form a subclass that is special enough to make the spectral gap problem amenable and, at the same time, broad enough to include physically relevant examples. We discuss "finite-size criteria," which allow to bound the spectral gap of the infinite system by the spectral gap of finite subsystems.