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Title: Periodically driven quantum many-body systems

Abstract: In this talk I will discuss some of the ongoing works on periodically driven quantum many body systems. To be specific I will discuss the realization of discrete time crystals in Sherrington-Kirkpatrick model of Ising glass and compare the stability of the discrete time crystal phase here with that in the spin systems with uniform power-law interactions. On a very different note, I will also discuss our recent work on drive induced half-metallicity in Hubbard type models.