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Floquet MBL phases in theory and experiment

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Recent work suggests that a sharp definition of ‘phase of matter’ can be given for some quantum systems out of equilibrium—first for many-body localized systems with time independent Hamiltonians and more recently for periodically driven or Floquet localized systems. We present a new family of driven Floquet phases which show non-trivial long time behavior in their local observables at late times, and comment on the results of recent experiments.