



What does it take for a closed quantum system to thermalize?

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An integrable many-body system has as many conserved quantities as particles. I will explain how these extra constraints keep such a system from thermalizing in a conventional way. One dimensional gases of neutral atoms are nearly integrable quantum many-body systems. I will describe how we make and study these 1D gases, and how we are trying to use them to understand the fundamental limits of statistical mechanics.

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Videübertragung aus der Universität Bonn