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Ben Brubaker and **Andrew Schultz*** (andrew.c.schultz@gmail.com). *Ice diagrams and Hamiltonians*. Preliminary report.

We begin the talk with a survey of results that show how statistical mechanical methods — namely the six-vertex model and the Yang-Baxter equation — have been used recently to recover some representation-theoretic identities like the Weyl character formula. We then show how these same results can be interpreted through the lens of discrete time evolution of the six vertex model. In particular, we show that a certain t -deformation of a known Hamiltonian for the five-vertex model can be used to recover some of the results already established via the Yang-Baxter equation. (Received February 13, 2016)