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**Andrew Gitlin\*** ([andrew\\_gitlin@berkeley.edu](mailto:andrew_gitlin@berkeley.edu)). *A vertex model for LLT polynomials.*

We describe a novel Yang-Baxter integrable vertex model, from which we construct a certain class of partition functions that are equal to the LLT polynomials of Lascoux, Leclerc, and Thibon. Using the vertex model formalism, we are able to prove many properties of these polynomials, including symmetry and a Cauchy identity. (Received January 14, 2021)