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Particle processes and Markov chains.

I'll give an overview of the connection between various versions of the exclusion process (a Markov chain consisting of particles hopping on a 1D lattice, either with open boundaries or on a circle) and orthogonal polynomials, including Askey-Wilson polynomials, Koornwinder polynomials, and Macdonald polynomials. (Received September 17, 2017)