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Garside Shadows and Automata in Coxeter groups

Garside shadows in a Coxeter system (W,S) appear in relation to the question of solving the conjugacy problem in the context of a general Artin-Tits Braid group. In this talk we will discuss properties and open problems about a family of finite state automata that recognize the language of finite reduced words for (W,S) and built out of finite Garside shadows. (based on a joint work with Philippe Nadeau and Nathan Williams)