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Patrick Ingram* (pingram@math.colostate.edu), Department of Mathematics, Colorado State University, Fort Collins, CO 80521. *Heights and post-critically finite rational maps.*

In complex holomorphic dynamics, the orbits of critical points reveal much about the behaviour of a map under iteration. Rational functions of a single variable for which all of these critical orbits are finite, then, have a special status. This talk will survey some recent results on the arithmetic of these maps, with an emphasis on the role of heights in their study. (Received December 13, 2011)