1027-11-90 Alexander Gorodnik* (gorodnik@caltech.edu), Mathematics 253-37, Pasadena, CA 91106, and Hee Oh (heeoh@math.brown.edu), Box 1917, 151 Thayer Street, Providence, RI 02912. Rational points on symmetric varieties.

We compute asymptotics of the number of rational points with bounded height on symmetric varieties. This confirms the Baryrev–Manin–Tschinkel conjecture in the case of the wonderful compactifications of some symmetric varieties. The proof uses dynamics of unipotent flows. It is a joint work with Hee Oh. (Received February 18, 2007)