1035-03-1527 **Maciej Malicki** and **Slawomir Solecki***, Department of Mathematics, 1409 W. Green St., University of Illinois, Urbana, IL 61801. *Isometry groups of separable metric spaces.*

First, I will present a result showing that every locally compact Polish group is isomorphic to the full isometry group of a proper metric space. This complements some results of Gao, Kechris and Melleray, and answers a question of Gao and Kechris. I will describe this background in the talk. Second, I will present an analysis of the action of the full isometry group on a separable ultrametric space that leads to representing such spaces as bundles with ultrahomogeneous fibers and with ultrametric bases. (Received September 20, 2007)