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Pierre PY* (pierre.py@math.uchicago.edu), Department of Mathematics, University of Chicago, 5734 S. University Avenue, Chicago, IL 60637. *Actions of Kahler groups on real hyperbolic spaces*. Preliminary report.

We prove that any (Zariski dense) action of the fundamental group of a compact Kahler manifold on the real hyperbolic space of dimension at least 3 factors through a surjection onto the fundamental group of an (orbi) Riemann surface. This generalizes a classical theorem of Carlson and Toledo. This is part of a joint work with T. Delzant (Strasbourg). (Received February 18, 2010)