1046-60-1317 Brigitta K Vermesi<sup>\*</sup> (bvermesi@math.rochester.edu), University of Rochester, Department of Mathematics, Hylan Building, Rochester, NY 14627. Intersection exponents for biased random walks on discrete cylinders.

We show that intersection exponents for asymmetric random walks on d-dimensional half-infinite discrete cylinders exist and are real analytic. As part of the argument, we prove convergence to stationarity of a time-inhomogeneous chain on random paths. Furthermore, we show this convergence takes place at exponential rate, an estimate obtained via a coupling of weighted half-infinite paths. (Received September 15, 2008)