KAROLY BOROCZKY, Eotvos University, Budapest, Pazmany Peter s. 1/C, 1117 Hungary *Transversals of hyperbolic disks*

According to the classical result of Hadwiger, if any three discs have a transversal in an infinite packing of congruent disks in the Euclidean plane then the whole family has a transversal. I prove that if any three sets have a transversal in an infinite packing of connected sets with uniformly bounded diameters in the hyperbolic plane then the whole family has a transversal.

Next, Danzer verified that if any five discs have a transversal in a finite packing of congruent disks in the Euclidean plane then the whole family has a transversal. I prove the analogous statement in the hyperbolic plane for disks and for horodisks. In addition I exhibit packings of arbitrary finite number of congruent disks in the hyperbolic plane such that any four has a transversal but the whole family has not. Moreover we exhibit packings of arbitrary finite number of congruent disks in the hyperbolic plane such that any three has a transversal but removing any disk from the family, even the rest has no transversal.