Andrew McIntyre* (mcintyre@crm.umontreal.ca), Centre de recherches mathmatiques, Université de Montréal, P.O. Box 6128, Centre-ville Station, Montréal, Québec H3C 3J7, Canada. Determinant of Laplacian associated to a Kleinian group. Preliminary report.

I will discuss how the determinant of the laplacian on a compact hyperbolic surface may be extended to a family of Kleinian groups. I will indicate some relations to scattering in the corresponding open 3-manifold. (Received August 30, 2005)