

**Dal'Bo, Françoise: Growth of groups acting by isometries and applications**

Abstract: Let  $G$  be a group acting properly discontinuously by isometries on a hyperbolic space. Denote by  $D(G)$  the limit when  $R$  goes to infinity of  $\ln N(R)/R$ , where  $N(R)$  is the number of elements in the intersection of  $G(O)$  and  $B(O,R)$ . Consider a subgroup  $H$  of  $G$ , under which condition do  $D(G)=D(H)$  hold? Joint work with Rémi Coulon and Andrea Sambusetti