Abstract. In this talk, Hardy-type inequalities associated to the quadratic form of the shifted Laplacian $-\Delta_{H^N} - (N-1)^2/4$ on the hyperbolic space $H^N$, $(N-1)^2/4$ being, as it is well-known, the bottom of the $L^2$-spectrum of $-\Delta_{H^N}$ will be presented. Sharpness of constants of the resulting Poincaré-Hardy inequality and the criticality of the operator will also be discussed. Furthermore, a related improved Hardy inequality on more general manifolds, under suitable curvature assumption and allowing for the curvature to be possibly unbounded below, will be considered. I will also consider improved $L^p$-Poincaré inequality and discuss related open questions.