Let $\mathbb{H}^n$ be the hyperbolic $n$-space and $\Gamma$ be a geometrically finite discrete subgroup in $\text{Isom}_+(\mathbb{H}^n)$ with cusps. In the joint work with Jialun Li, we establish exponential mixing of the geodesic flow over the unit tangent bundle $T^1(\Gamma \backslash \mathbb{H}^n)$. Previously, such results were proved by Stoyanov for convex cocompact discrete subgroups and Mohammadi-Oh and Edwards-Oh for $\Gamma$ with large critical exponent. We obtain our result by constructing a nice coding for the geodesic flow, which in particular satisfies the exponential tail condition, and then proving a spectral bound on the transfer operator building on Dolgopyat's framework. The construction of the coding is partly inspired by the works of Lai-Sang Young and Burns-Masur-Matheus-Wilkinson.