A generalization of the \((CN)\) inequality and its applications

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**Abstract.**
We extend the \((CN)\) inequality of Bruhat and Tits in CAT(0) spaces to the general setting of uniformly convex hyperbolic spaces. We also show that, under some appropriate conditions, the sequence of Ishikawa iteration defined by Panyanak converges to a strict fixed point of a multi-valued Suzuki mapping.

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**References**


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