

## Horosphere topology

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**Abstract.** We introduce a prime end-type theory on complete Kobayashi hyperbolic manifolds using horosphere sequences. This allows to introduce a new notion of boundary – new even in the unit disc in the complex space – the horosphere boundary, and a topology on the manifold together with its horosphere boundary, the horosphere topology. We prove that a bounded strongly pseudoconvex domain endowed with the horosphere topology is homeomorphic to its Euclidean closure, while for the polydisc such a horosphere topology is not even Hausdorff and is different from the Gromov topology. We use this theory to study boundary behavior of univalent maps from bounded strongly pseudoconvex domains.

**Mathematics Subject Classification (2010):** 32F27 (primary); 32F45, 32H40, 32Q55, 32T15, 53C23, 30E25, 30F25 (secondary).