

**Klarreich, Erica**

**Semiconjugacies between Kleinian group actions on the Riemann sphere.** (English)

Zbl 1011.30035

Am. J. Math. 121, No. 5, 1031-1078 (1999).

The author discusses the action of a geometrically infinite Kleinian group  $\Gamma$  on the Riemann sphere and shows that in some conditions the semiconjugacy with the action of a geometrically finite Kleinian group is determined by the end invariants of  $\Gamma$ . With respect to a semiconjugacy this discussion is related to the extension of a map of hyperbolic 3-space continuously to the boundary at infinity, that is the Riemann sphere. More generally, the author discusses the extension problem in the Gromov-hyperbolic spaces and gives a sufficient condition for a map between Gromov-hyperbolic spaces to be extend continuously to their boundaries.

Reviewer: [Gou Nakamura \(Toyota\)](#)

**MSC:**

**30F40** Kleinian groups (aspects of compact Riemann surfaces and uniformization)

Cited in **1** Review  
Cited in **40** Documents

**Keywords:**

Kleinian group; semiconjugacy; Gromov-hyperbolic space; boundary at infinity; electric space

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