

# QUOTIENTS OF PROJECTIVE FRAÏSSÉ LIMITS

GIANLUCA BASSO

ABSTRACT. The concept of projective Fraïssé limit was introduced in [2] and dualizes the notion of (direct) Fraïssé limit, developed by R. Fraïssé as a mean of generalizing the relation between  $(\mathbb{Q}, \leq)$  and the class of finite linear orders. Key results in this area were obtained by T. Irwin and S. Solecki in [2] and by R. Camerlo in [1], who characterized the quotients of the projective Fraïssé limits of finite graphs. More recent developments include [3] and [4] by A. Kwiatkowska. An important role is played by Continuum theory since the quotient of the projective Fraïssé limit of the class of finite linear graphs by the edge relation is the Pseudo-Arc, which is the unique hereditarily indecomposable chainable continuum, up to homeomorphism.

[1] Riccardo Camerlo, Characterising quotients of projective Fraïssé limits, *Topology Appl.* 157 (2010), no. 12, 1980–1989. MR2646431 (2011h:54044)

[2] Trevor Irwin and Sławomir Solecki, Projective Fraïssé limits and the pseudo-arc, *Trans. Amer. Math. Soc.* 358 (2006), no. 7, 3077–3096 (electronic). MR2216259 (2006m:54064)

[3] Aleksandra Kwiatkowska, The group of homeomorphisms of the Cantor set has ample generics, *Bull. Lond. Math. Soc.* 44 (2012), no. 6, 1132–1146. MR3007646

[4] Aleksandra Kwiatkowska, Large conjugacy classes, projective Fraïssé limits and the pseudo-arc, *Israel J. Math.* 201 (2014), no. 1, 75–97. MR3265280

PHD STUDENT, UNIVERSITÉ DE LAUSANNE, LOSANNA, SVIZZERA  
*E-mail address:* gianluca.basso@unil.ch