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Elizabeth Vidaurre* (elizabeth.vidaurre@rochester.edu), 140 Trustee Road, Mathematics Department, University of Rochester, Rochester, NY 14627, and **Jelena Grbic, Michele Intermont** and **Isabelle Laude**. *A Homotopical Generalisation of the Bestvina-Brady Construction.*

Using polyhedral products $(\underline{X}, \underline{A})^K$, we recognise the Bestvina-Brady construction as the fundamental group of the fibre of $(S^1, *)^L \rightarrow (S^1, *)^K = S^1$, where L is a flag complex and K is a one vertex complex. We generalise their construction by studying the homotopy fibre F of $(S^1, *)^L \rightarrow (S^1, *)^K$ for an arbitrary simplicial complex L and K an $(m-1)$ -dimensional simplex. We describe the homology of F , its fixed points, and maximal invariant quotients for coordinate subgroups of \mathbb{Z}^m . This generalises the work of Leary and Saadetoğlu who studied the case when $m = 1$. (Received January 26, 2017)