1086-05-2147   **Andrew Gainer-Dewar*** (`againerdewar@carleton.edu`), Carleton College, Department of Mathematics, 1 North College Street, Northfield, MN 55057. Γ-*species and the enumeration of k-trees.*

We extend Joyal's theory of combinatorial species to incorporate information about 'structural' group actions, yielding an object we term a 'Γ-species' and an associated enumerative theory. We then apply this theory and associated techniques to enumerate unlabeled k-trees, resolving questions left open by Moon, Beineke, and Pippert in 1969. (Received September 24, 2012)

1