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Pedro Boavida de Brito, Geoffroy Horel and Marcy Robertson*

(marcy.robertson@unimelb.edu.au). *An action of the Grothendieck-Teichmüller group on the operad of stable curves of genus zero.*

In this talk, we show that the group of homotopy automorphisms of the profinite completion of the (cyclic) framed little 2-discs operad is isomorphic to the (profinite) Grothendieck-Teichmüller group. We deduce that the Grothendieck-Teichmüller group acts nontrivially on an operadic model of the genus zero Teichmüller tower. (Received August 05, 2017)