1067-18-483   **Guerino Bruno Mazzola*** (`mazzola@umn.edu`), University of Minnesota, School of Music, 2106 Fourth Street South, Minneapolis, MN 55455. *Towards Gestural Music Analysis.*

We apply the mathematical theory of gestures as developed with Moreno Andreatta (published in the Journal of Mathematics and Music, Vol. 1, No.1 (2007), pp. 23-46 and in the same journal, Vol. 3, No. 1, (2009) pp. 31-58) to a gestural analysis of some modulations in Beethoven's Hammerklavier Sonata op.106. Technically speaking, this theory applies ideas from algebraic topology and their abstraction to topos theory. This approach adds to classical algebraically modeled harmony a new dimension of continuity that was evoked, but not realized, in David Lewin's transformational theory. (Received September 06, 2010)