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Abhijit Champanerkar* (abhijit@math.csi.cuny.edu), Department of Mathematics, College of Staten Island, CUNY, 2800 Victory Boulevard, Staten Island, NY 10314, and Ilya Kofman (ikofman@math.csi.cuny.edu), Department of Mathematics, College of Staten Island, CUNY, 2800 Victory Boulevard, Staten Island, NY 10314. On Jones polynomials of closed braids with a full twist. Preliminary report.

Let L be a closed n-braid with a full positive twist, and with up to n negative crossings. We show that the Jones polynomial of L satisfies a braid index constraint, which is a gap between the first two non-zero coefficients of $(1-t^2) \cdot V_L(t)$. (Received September 21, 2009)