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Michael Brandenbursky* (brandenm@crm.umontreal.ca), Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. *Braid concordance classes and stable commutator length*. Preliminary report.

In this talk I will define a quasihomomorphism from braid groups to the concordance group of knots in the 3-sphere. As a consequence of this construction, I will provide a relation between the stable four ball genus of a knot K and the stable commutator length of a braid in the preimage of the concordance class of K .

In addition, for a knot K I will define a new knot invariant, that may be seen as a refinement of a braid index of K , and will show that it bounds from above the four ball genus of K .

This is a joint work with J. Kedra from U. Aberdeen. (Received January 09, 2014)