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(ohyama@lab.twcu.ac.jp) and Migiwa Sakurai* (migiwa@ge.ibaraki-ct.ac.jp), 866 Nakane, Hitachinaka, Ibaraki 312-8508, Japan. Examples of virtual knots with vanishing n-writhes.

Satoh and Taniguchi define a numerical invariant called an n-writhe. This invariant induces a lot of virtual knot invariants such as an index polynomial, an odd writhe polynomial and an affine index polynomial. In this talk, we show that there exists infinitely many virtual knots whose n-writhes are all zero. (Received September 22, 2015)