Note on infinitesimal bending of knots

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This is a joint work with Louis H. Kauffman, University Illinois Chicago, USA, Marija S. Najdanović, Faculty of Science and Mathematics, University of Niš, Serbia, and Svetozar Rančić, Faculty of Science and Mathematics, University of Niš, Serbia.

This talk is devoted to a study of the energy of knots and the infinitesimal bending of knotted curves. Variations of the related geometric magnitudes will be studied. Willmore energy, the total curvature, the total torsion, as well as the total normalcy are obtained. Some examples are visualized.