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(alowrance@math.uiowa.edu), Department of Mathematics, 14 MacLean Hall, Iowa City, IA 52242-1419. *Turaev genus, knot signature, and the knot homology concordance invariants: Part 2.*

In this talk, I will give a relationship between the Ozsvath-Szabo tau invariant, the Rasmussen s invariant, knot signature, and the Turaev surface of a knot. This leads to new lower bounds for the Turaev genus of a knot. (Received March 24, 2010)