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The Gordon-Litherland pairing for knots in thickened surfaces

In 1978, Gordon and Litherland defined a bilinear pairing associated to a knot together with a choice of spanning surface, possibly non-orientable. They showed how to use it to compute the knot signature and other invariants of classical knots and links. This talk will discuss generalizations of the Gordon-Litherland pairing for homologically trivial knots in thickened surfaces, with a focus on applications to virtual knot concordance (joint with Homayun Karimi).