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Concordance of virtual knots

This talk will examine concordance for virtual knots. The main theorem is that two classical knots are concordant as virtual knots if and only if they are concordant as classical knots. This result is joint work with Matthias Nagel, and it answers a question raised in papers by Kauffman and Turaev. It follows that inclusion induces an injection from the concordance group of classical knots into the concordance group of long virtual knots. We give examples of slicing virtual knots in terms of their Gauss diagrams, and time permitting, present some new results on concordance invariants for virtual knots, which represents joint work in progress with Micah Chrisman and Robin Gaudreau.