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K-theoretic Gromov-Witten invariants of Grassmannians. Preliminary report.

K-theoretic Gromov-Witten invariants can be defined as the Euler characteristics of Gromov-Witten varieties, and they are used to define the structure constants of quantum K-theory. I will speak about a formula that identifies the (equivariant) KGW invariants of Grassmannians with Euler characteristics of classical Schubert intersections on flag varieties. This result generalizes a formula for cohomological Gromov-Witten invariants that I have proved earlier with Kresch and Tamvakis. One question that naturally arises is which Gromov-Witten varieties are rational, which has earlier been studied by Lee and Pandharipande. This is joint work with Leonardo Mihalcea. (Received January 22, 2008)