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The Jones-Witten invariants of knots. (English) [Zbl 0739.57001](#)

Sémin. Bourbaki, Vol. 1989/90, 42ème année, Astérisque 189-190, Exp. No. 715, 7-16 (1990).

[For the entire collection see [Zbl 0722.00001](#).]

This expository article provides an introduction to the Jones polynomial for links in S^3 and its generalization to Witten invariants for links in a compact 3-manifold, including the relative case. An approach to Witten invariants through the moduli space of holomorphic $SL(2, C)$ - bundles over a Riemann surface is briefly described.

Reviewer: [T.Lawson \(New Orleans\)](#)

MSC:

57M25 Knots and links in the 3-sphere (MSC2010)

57N10 Topology of general 3-manifolds (MSC2010)

Cited in **2** Documents

Keywords:

[topological quantum field theory](#); [Jones polynomial](#); [Witten invariants for links in a compact 3-manifold](#); [moduli space of holomorphic \$SL\(2, C\)\$ - bundles over a Riemann surface](#)

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