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Portola Plaza, Los Angeles, CA 90095-1555. *Instantons and odd Khovanov homology.*

Consider the double cover of the 3-sphere branched over a link. We will discuss how the instanton homology of this 3-manifold is related to the Khovanov homology of the link. When signs (integer coefficients) are taken into account, the relevant link homology is odd Khovanov homology, which is genuinely distinct from Khovanov homology. This material is motivated by work of Ozsváth and Szabó in the Heegaard-Floer setting. (Received September 19, 2014)