

# Khovanov Homology

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## **Abstract**

There is a chain complex naturally associated with a planar projection of a knot (or link), whose homology-known as the Khovanov Homology-is an invariant of the underlying knot, and whose Euler characteristic is the Jones polynomial of the knot. We will look at Bar-Natan's approach to this homology theory via "cobordisms" modulo local relations, which simplifies and at the same time extends Khovanov's treatment to tangles (knot pieces).