1025-57-268   **Alexander Shumakovitch*** (`Shurik@gwu.edu`), The George Washington University, Department of Mathematics, Old Main, 1922 F St., NW, Suite 102, Washington, DC 20052. *Long exact sequence for Khovanov homology corresponding to the Jones skein relation of oriented links.* Preliminary report.

We introduce a long exact sequence for Khovanov homology of oriented links that corresponds to the Jones skein relation and discuss its applications. Relations to the sl_n Khovanov-Rozansky homology are also considered. (Received January 23, 2007)