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Radmila Sazdanovic* (radmila@gwmail.gwu.edu), George Washington University, Department of Mathematics Monore Hall Rm 240, 2115 G street NW, Washington, DC, DC 20052, and **Mikhail Khovanov**. *Categorification of Orthogonal Polynomials*.

We introduce a categorification of the ring of polynomials $Z[x]$, viewed as a Grothendieck ring of a suitable category of projective modules over geometrically defined ring. This construction is generalized to the categorification of some basic special functions, such as Chebyshev polynomials. (Received September 07, 2009)