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Yuri Latushkin and **Alim Sukhtayev*** (alimsukh@iu.edu). *The Maslov index, spectral flow, Hadamard formula: recent advances.*

In this talk we will address recent results on relations between the Morse and Maslov indices for differential operators on a finite interval, full line, and in multidimensional domains. We will also discuss a Hadamard-type formula relating the rate of change of the eigenvalues of the differential operators when the domain is changing and the value of the (Maslov) crossing form. (Received September 02, 2016)