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**Maxim Derevyagin\*** (mderevya@olemiss.com). *On the locally uniform convergence of Padé approximants for a class of meromorphic functions.*

Padé approximation is a very useful tool for a variety of computational needs. Usually, one uses the Padé approximation method when it is necessary to extract information about singularities of a meromorphic function provided that a power series representation of this function centered at some point of the complex plane is known. In fact, if the Padé approximation method can be applied then it gives approximants, which are rational functions, and these approximants converge to a given function very quickly. Moreover, the poles of the obtained rational functions give the idea about singularities of the original meromorphic function. Thus, one of the main questions in the theory of Padé approximation is to characterize classes of meromorphic functions for which Padé approximation works. In the present talk, we will discuss a new class of meromorphic functions for which Padé approximants converge locally uniformly. This new class contains previously known classes that were proposed by Markoff, Gonchar, and Rakhmanov. (Received March 10, 2015)