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Rank-crank type PDE and non-holomorphic Jacobi forms. Preliminary report.

In this talk I will show how Rank-Crank type PDE's (first found by Atkin and Garvan) occur naturally in the framework of non-holomorphic Jacobi forms and give an infinite family of such differential equations. As an application I obtain an infinite family of congruences for odd Durfee symbols, a partition statistic introduced by George Andrews. This is joint work with Sander Zwegers. (Received September 15, 2008)