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Heun's equation, generalized hypergeometric function and exceptional Jacobi polynomial

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(Submitted on 8 Jun 2011 (v1), last revised 10 Jan 2012 (this version, v3))

We study Heun's differential equation in the case that one of the singularities is apparent. In particular we conjecture a relationship with generalized hypergeometric differential equation and establish it in some cases. We apply our results to exceptional Jacobi polynomials.

Comments:	15 pages; validity of the conjecture was extended
Subjects:	**Classical Analysis and ODEs (math.CA)**; Mathematical Physics (math-ph)
MSC classes:	34M35, 33E10, 34M55
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