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One-dimensional quasi-exactly solvable differential equations. (English) [Zbl 1112.34301](#)

Mladenov, Ivaïlo (ed.) et al., Proceedings of the 7th international conference on geometry, integrability and quantization, Sts. Constantine and Elena, Bulgaria, June 2–10, 2005. Sofia: Bulgarian Academy of Sciences (ISBN 954-8495-30-9/pbk). 128-139 (2006).

Author's abstract: By means of similarity information we find some one-dimensional quasi-exactly solvable differential equations and their related Hamiltonians which appear in physical problems. We provide also two examples with application of these differential equations.

For the entire collection see [\[Zbl 1089.53004\]](#).

Reviewer: [Sergei A. Mazanik \(Minsk\)](#)

MSC:

[34A05](#) Explicit solutions, first integrals of ordinary differential equations

Keywords:

[second-order differential equations](#); [quasi-exactly solvable](#)