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Point classification of the second order ODE's by Ruslan Sharipov and its application to Painleve equations

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(Submitted on 1 Apr 2012)

This is an review on the point classification of second order ODE's by Ruslan Sharipov. His works were published in 1997-1998 at the Electronic Archive at LANL and undeservedly forgotten. Last chapter is an application of this classification to the investigation of Painleve equations.

Comments: 14 pages, 1 figure

Subjects: Classical Analysis and ODEs (math.CA); Differential Geometry (math.DG);

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MSC classes: 53A55, 34A26, 34A34, 34C14, 34C20, 34C41

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