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On the contact equivalence problem of second order ODEs which are quadratic with respect to the second order derivative

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In the present paper we establish the necessary and sufficient conditions for two ordinary differential equations of the form $y''{}^2+A(x,y,y') y''+B(x,y,y')=0$ to be equivalent under the action of the pseudogroup of contact transformations. These conditions are formulated in terms of integrals of some one-dimensional distributions.

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