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The Cauchy problems and Global Solutions for Deybe

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摘要

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The Cauchy problems and Global Solutions for Deybe

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Abstract In this paper we consider the Cauchy problems of Burgers' equations and the Deybe system. Their existence and uniqueness of the time-global solutions for small initial data in some pseudomeasure spaces are obtained. The asymptotic stability of small solutions is proved. As an immediate result the existence and uniqueness of the self-similar solutions are also obtained provided the initial data satisfy the self-similar structures.

Key words [Burgers' equations](#) [Deybe system](#) [pseudomeasure spaces](#) [self-similar solutions](#) [asymptotic stability](#)

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