

A Differential Game of Evasion from Many Pursuers

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ABSTRACT

This paper considers a game problem with many pursuers described by infinite systems of differential equations of second order. On the controls of players geometric constraints are imposed. The aim of the pursuers is to capture the evader, while the aim of the evader is the opposite. The theorem on evasion is proved in this paper.

Key words: differential game, pursuer, evader, control, evasion.

Subject classifications: 49N70, 49N75, 49N90