

**ON THE PROBLEM OF TRACKING A MOVING OBJECT BY OBSERVERS****V. I. Berdyshev**

Received October 9, 2014

Extremal problems concerned with tracking a moving object by observers are considered. The motion tactic of the vehicle with account taken of its visibility by the observers is discussed. Characteristic properties of optimal trajectories are given.

Keywords: tracking problem, moving object, observer.

**V. I. Berdyshev.** RAS Academician, Krasovskii Institute of Mathematics and Mechanics, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, 620990 Russia, e-mail: bvi@imm.uran.ru.

Cite this article as:

V.I. Berdyshev, On the problem of tracking a moving object by observers, *Tr. Inst. Mat. Mekh. UrO RAN*, 2015, vol. 21, no. 1, pp. 46–55.