

## AN OBJECT WITH A DESTRUCTIVE DEVICE AND AN UNFRIENDLY OBSERVER IN THREE-DIMENSIONAL SPACE

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An autonomous object with a high-speed destructive device is moving under observation, and a bodily observer is hiding from the device behind convex fragments of the surrounding area. The observer tracks the motion of the object in a safe mode. The task of the object is to evade observation by choosing its speed. The observer's trajectory allowing to follow the object on the largest possible part of the object's trajectory is constructed.

Keywords: navigation, optimal trajectory, moving object, bodily observer.

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