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Optimal instants for missile launching missiles and application of jamming in a duel situation of fighters. (English. Russian original) [Zbl 1263.93241](#)

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Summary: Based on system analysis of a duel situation of a long-range air fight of aircraft-fighters, the “Attack” and “Defense-with-Attack” problem substitutions are highlighted. For the case of a single missile launch of missiles by each enemy and complete information (for each participant of a duel) on the performance of onboard air-to-air missiles aircraft and airborne electronic jammers (EJs), the structures of algorithms that generate recommendations in real time for a crew relating to the application of air-to-air missiles and jamming are obtained.

MSC:

[93E20](#) Optimal stochastic control

[49N90](#) Applications of optimal control and differential games

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Full Text: [DOI](#)

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