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Abstracts of Short Communications and Posters

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12. Probability and Statistics

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Estimation of large deviations of dynamic system phase

The approximate methods of probability estimation of such deviations occurence, including the problem of high level-crossing, are suggested and checked. These methods are based on the reduction of very small probability estimation nonlinear problem (P=1. e-6 -: - 1. e-8) to the solution of "equivalent" variational problem. Several model problems and particular problems of flight dynamics are considered (for example the problem of safe automatic landing).