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# Estimation of the angular velocity of pointing direction by the measurements of distance and velocity of longitudinal motion in spacecraft rendezvous process

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*The problem of estimation of the angular velocity of pointing direction by the results of measurements of the distance and velocity of longitudinal motion in spacecrafts rendezvous process is considered. Analytical solution of the estimation problem was received. The numerical calculations of the problem of estimation the angular velocity of pointing direction were given.*

**Keywords:** rendezvous of spacecraft, distance, angular velocity of pointing direction, velocity of longitudinal motion, method of precise placement of poles.

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