

HEMISPHERICAL HIGH-SPEED PARTICLE TRANSDUCER

©2009 M. V. Izyumov¹, N. D. Syomkin²

¹Samara Space Rocket Centre “TsSKB-Progress”

²Samara State Aerospace University

The paper presents the solution to the problem of constructing a mathematical model of a high-speed particle ionisation transducer of a hemispherical design. The results of experiments with the hemispherical transducer carried out with the help of a pulsing laser are discussed.

Hemispherical transducer, mathematical model, ions, charge, high-speed particle, pulsing laser.

Izyumov Mikhail Vladimirovitch, head of sector, Samara Space Rocket Centre “TsSKB-Progress”, e-mail: izumov_mike.csdb@mail.ru. Area of research: aerospace instrument engineering, space research.

Syomkin Nikolay Danilovitch, professor, doctor of technical science, Samara State Aerospace University, e-mail: semkin@ssau.ru. Area of research: aerospace instrument engineering, space research.