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AERODYNAMIC ANALYSIS ON JAXA'S EXPERIMENTAL VEHICLE FOR HYPERSONIC FLIGHT

Abstract

At Kakuda Space Center of JAXA, ram / scramjet engine combustion tests have been conducted. In 2022, JAXA plans to conduct the experimental vehicle for hypersonic flight. The final goal of the project is set to conduct the flight experiment to obtain the supersonic combustion data in the real flight and to validate the prediction tool by the flight data. In this study, the aerodynamics characteristics were investigated numerically.