

JAMIC を利用した微小重力実験の成果と今後の課題

丹治 彰

The Results and Issues of Microgravity Experiments Utilizing JAMIC Drop Shaft Facility

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Abstract

It has passed 10 years since the drop shaft facility at Japan Microgravity Center (JAMIC) has started its operation. In this opportunity, I summarized the results of the microgravity experiments utilizing JAMIC drop shaft facility in this paper. Most of those experiments were related to the research and development (R & D) projects provided by New Energy and Industrial Technology Development Organization (NEDO). The characteristic of those projects was most of that were conducted by the international cooperation researches, and many experimental researches utilizing microgravity environment were carried out with foreign researchers. The results of the past R & D projects and the outlines of the ongoing projects were shown, then the results of the microgravity experiments conducted through the R & D projects were described by each research fields. Some examples that the experimental results has moved to practical use were introduced and the expected experimental researches in the future were shown. Furthermore, the issues of the microgravity experiments utilizing JAMIC drop shaft facility and its solutions were referred.