

NSRC 2023 Abstract

Abstract Title: Testing a virtual reality medical module in parabolic flight as a proof-of-concept for future space missions

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Category (1st Choice): Technology & Technology Testing

Category (2nd Choice): Microgravity Sciences; Human-Tended Payloads

Abstract:

Immersive technologies such as virtual reality and mixed reality are increasing in ubiquity with respect to human spaceflight applications, and have been successfully used for just-in-time training, operations, and outreach. Immersive technologies are also being applied towards medical applications in spaceflight, including diagnostic imaging and medical skills maintenance. In this presentation, the International Institute for Astronautical Sciences describes its testing of the Luxsonic Technologies virtual reality radiology reading room in parabolic flight, as well as plans for future testing in suborbital flight, and applications for long-duration spaceflight.