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EXPERIMENTS ON COLORING SOAP BUBBLES UNDER MICROGRAVITY

**Abstract**

On Earth, it is difficult to fix color on the surface of bubbles when trying to color a liquid due to gravity. However, when we colored bubbles in the microgravity environment of space, we were able to create colored bubbles by fixing the dye to the entire bubble. In this paper, we will report the method and results of the foam coloring experiment conducted in the Space Shuttle, and discuss the possibility of future technological development.