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BREAKUP ANALYSIS OF COSMOS 1408 SATELLITE

**Abstract**

On November 15, 2021, Russian dead satellite Cosmos 1408 broke up, which attracted widespread attention from media and researchers both domestic and foreign. This paper analyzes this event. According to TLEs released by US Space Surveillance Network, the orbit change of the parent body was analyzed. By using the orbital elements of breakup debris, the information such as breakup time and intensity are preliminarily determined. Finally, 2 spacecrafts on LEO were selected to carry out the collision risk assessment.