

ABSTRACT

The disclosure discloses a space debris collision avoidance method and device that take into account the orbit altitude adjustment task. It belongs to the field of spacecraft technology. The space debris collision avoidance method that takes into account the orbit altitude adjustment task includes: when the spacecraft has a continuous orbit change requirement, obtain the collision risk value of the spacecraft and space debris within the target time period; when the collision risk value at the first moment within the target time period is greater than the preset value, control the spacecraft with the target control strategy at the second moment ; Wherein the second moment is earlier than the first moment; the target strategy includes at least one of the following: increasing the amount of orbit control, reducing the amount of orbit control, increasing the number of times of orbit controls, reducing the number of times of orbit controls and combining avoidance control.

<FIG 1>