

HEPTA MDR

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SSSRC

MISSION

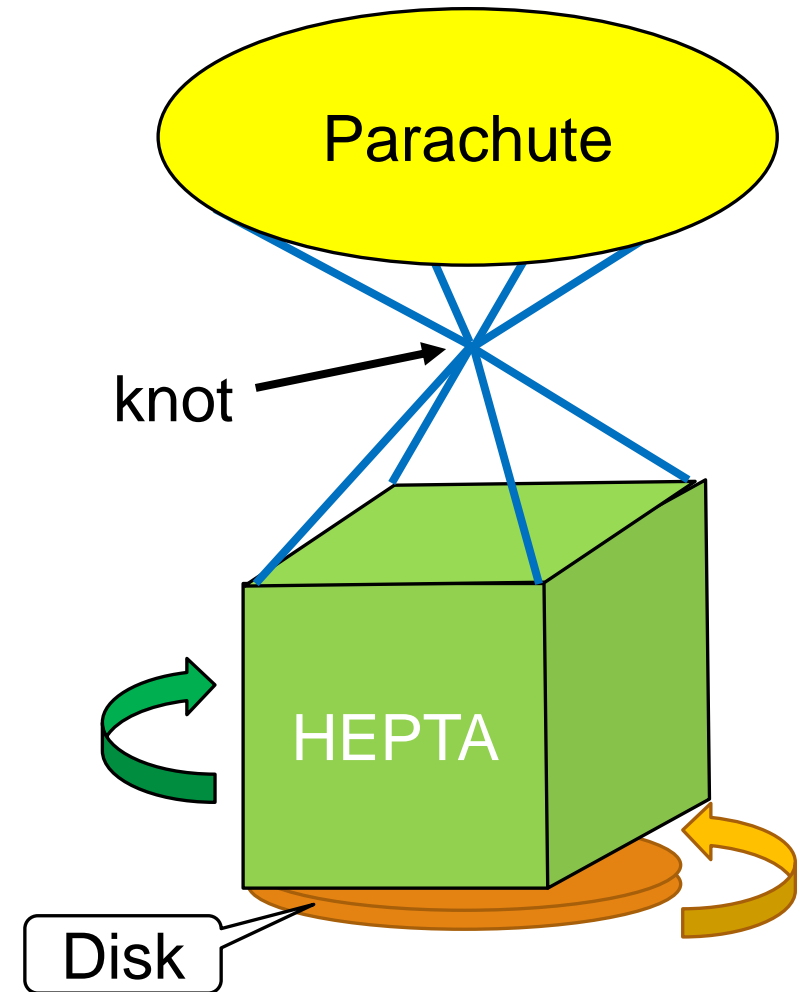
Attitude controlling by reaction wheel

Using camera in CanSat is popular

A lot of CanSats doesn't control its attitude in the air

It is difficult that turning the camera on intended direction

If I develop attitude control system for CanSat, the range of mission with camera will expand.



SUCCESS CRITERIA

Minimum Success 50 % success	Fundamental functions & Survival <ul style="list-style-type: none">• Opening parachute and soft landing• Getting data from prepared sensors
Full Success 100 % success	Reaction wheel <ul style="list-style-type: none">• Rotating the wheel• Getting angular velocity data which shows that attitude is changed by the reaction wheel
Advanced Success 120 % success	Feedback controlling <ul style="list-style-type: none">• Feedback controlling the wheel's rotating speed by sensor data• Stop the rotation