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ADVANCED APPROACH FOR SOLAR FLARE DEFLECTION

Abstract

The Sun's flares are always a threat to the electrical systems in the current high-tech world. It's hard to say what all are the potential losses due to solar flare, but mutilation is certain in such route.

A lot of proposals have been made in the lines of taking preventive measures on ground, but entry of Solar flare cannot be stopped from it. Hence, an approach has been made in this paper to deflect the charged particles of the approaching flare out of Earth's stretch with the help of the interconnected satellite constellation.

The constellation of satellites is interconnected with conducting cables forming multiple small quadrate loops. The satellites are covered by magnetic deflector to prevent any damage to inner circuitry.

When the magnetic field of solar flare enters the loop, by the principle of Lenz's law, there will induction of the magnetic field. By achieving a steadily increased and then decreased induced magnetic field from one end to the other end of constellation facing the sun, the charged particles entering at any point of the loop will be deflected thereby, not making it enter Earth. This paper works on building such model to prevent any future catastrophe.

Even though Solar flare has all the potential to cause a global catastrophe, when seen from energy perspective, it is capable of charging all the satellites of the constellation. In future, if such a constellation is put in order, then we can trap the energy of Solar flares.