Defense Announcement

Transparent and Non-transparent Microstrip Antenna on a CubeSat

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Committee Chair: David R. Jackson

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Various types of compact novel microstrip antennas for CubeSat are proposed to replace the traditional whip antennas which need sophisticated mechanical deployment. The antennas are designed to be low-profile while having a minimal (or zero) blockage of the solar panels on the CubeSat. Mainly two types of designs were investigated: transparent (supersolar) antennas and non-transparent (subsolar) antennas.