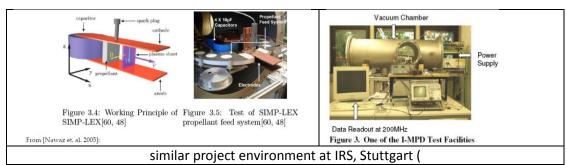




Bismillah



IAP Laboratory at Ras Nhache/Batroun, Lebanon



IAP-SAT is the first Lebanese meteorological satellite. It shall be used to take meteorological data to estimate the state of weather in Lebanon. In 2015 there was established a hardware-in-loop test rig for IAP-SAT where the space environment was simulated. One of the next steps shall be the development of an electrical propulsion unit based on pulsed plasma thruster (PPT) technology. In two PhD theses there shall be investigated the PPT thruster and its interaction with Van Allen Belt magnetic field.

PhD Thesis: Measurement of interaction of IAP-SAT PPT with a laboratory Van Allen belt environment

Detailed description an working plan:

- Development of IAP-PPT unit
- Development of measurement environment
- Taking measurement data

Keywords: Electrical Space Propulsion Units, pulsed plasma thruster (PPT) technology, Van Allen Belt magnetic field

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