

Physics & Astronomy SEMINAR

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Aerospace Avionics and Strategies for Reliability

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Spaceflight is an exceptionally harsh environment for electronics. Components traditionally selected for aerospace applications rely on the highest quality control standards, but are rapidly becoming cost prohibitive. This has forced engineers to re-think how to design, build, and operate avionics. We will go over some of the traditional and modern strategies to ensure systems are designed for maximum reliability. We will also look at how some of these strategies are applied to control oxygen rich full flow staged combustion rocket engines.