

Relevance and guidelines of radiation effect testing beyond the standards for electronic devices and systems - A. Coronetti (CERN - ESR 15)

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Device integration and advanced packaging bring several challenges to standard radiation hardness assurance practices. These are mainly related to sensitivity to weakly ionizing particles as well as ensuring the representativeness of the test, such as the use of protons as a proxy to ions. The relevance of these emerging out-of-the-standard radiation effects was assessed for singly-charged particles, such as pions for the accelerator and low-energy protons for space. A guideline for radiation verification with protons of space systems associated with high risk acceptance was developed.

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