Contribution ID : **66** Type : **Plenary/section talk**

Layout-aware Soft Error Rate Estimation Technique for Integrated Circuits under the Environment with Energetic Charged Particles

Friday, 14 October 2016 14:45 (15)

This work considers the technique for modeling of multiple errors caused by charged particles in sub-100 nm devices. This technique estimates the Soft Error Rate taking into account layout of integrated circuit. Comparison of simulated data with data from experiments on testing facilities is provided.

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Session Classification : Methods of experimental physics - parallel VI

Track Classification : Methods of experimental physics