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The BRAVE FPGAs: overview and status of the European radiation-hardened FPGAs for space

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FPGAs are key components in space equipment due to their versatility to implement digital functions. They are embarked in satellites and used in many applications; such as observing the earth, provide telecommunications and navigation services as well as to contribute to science and explore the wider Universe.

The European FPGAs for space (BRAVE, Big Reprogrammable Array for Versatile Environtments) is a family of reprogrammable FPGAs that are radiation hardened to withstand the radiation requirements for most space missions. This talk provides an overview of the BRAVE FPGAs, with a technical overview of the architecture capabilities as well as a summary the radiation test results for the NG-MEDIUM, the first member of the family.

Summary

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Session Classification: Invited