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## **MALTA3: concepts for a new radiation tolerant sensor in the TowerJazz 180nm technology**

The upgrade of the MALTA DMAPS designed in TowerJazz 180 nm Imaging process will implement the numerous modifications, as well as front-end changes in order to boost the charge collection efficiency after the targeted fluence of  $1 \times 10^{15}$  MeV  $n_{eq}/\text{cm}^2$ . The effectiveness of these changes have been demonstrated in recent measurements with a small-scale mini-MALTA demonstrator chip. Proposed changes in the periphery of the future MALTA3 sensor are listed and discussed including research of the overall sensor architecture.

### **Primary experiment**

ATLAS

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