

Integrated Circuits in Space: detecting gamma rays and infrared photons

Gunnar Maehlum, IDEAS

Integrated Detector Electronics AS (IDEAS) develops and delivers integrated circuits and systems for detection of radiation such as gamma rays and infrared photons.

The circuits and systems are used in various applications from industrial to medical and in space. For space applications we deliver circuits and systems with are tolerant to radiation.

Our circuits are mixed signal with low noise preamplification followed sometimes by ADCs or other digital functions.

I will outline the use in some applications with a focus on the requirements for use in space as well as show our heritage and recent missions.