Abstract

Radiation imaging sensors are being used in a variety of applications and a similar kind of sensor, namely the “Timepix”, has been developed. The aim of this paper is to study and analyze its behavior and discover a new technique that can be further integrated into the next version of the sensor in order to enhance its functionality. In this regard, the effect of charge sharing between the pixels has been studied as an initial starting point and an attempt has been made to discover the center peak position by removing the effect of charge sharing.

References
Index Terms

Computer Science  Signal Processing

Keywords

Radiation Imaging sensor  Timepix  Energy Spectrum