

Simulating Organic Radiation Detectors

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The use of organic semiconductors as radiation detectors is a new organic electronics research. A particularly valuable tool to aid development of such devices is an emerging trend in reliable simulation that can be used to predict behaviour. We present a simulation program that was developed to investigate how organic materials react to incident radiation, and reconstruct electronic signals anticipated when generated charge is read out. This simulation program can be used to guide device fabrication, in addition we present our recent efforts in exploring how the data from the simulation could potentially be used to estimate the detector response for prospective samples read out electronic combinations.

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