

Commercialization of Diamond Electronics: From Imaging Beam Monitor to Power Electronics

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Over the last few years, Advent Diamond has begun developing diamond-based electronics for the commercial market. In this talk we will share performance data of these diamond components in these contexts vs the state of the art. These applications include niche applications such as a diamond-based x-ray beam monitor for scientific facilities, other specialized detectors, and diodes. In addition, we will describe ongoing work on NV-center based magnetometers and diamond transistors. In addition, we report on the market need for these diamond-based technologies and commercialization timelines.