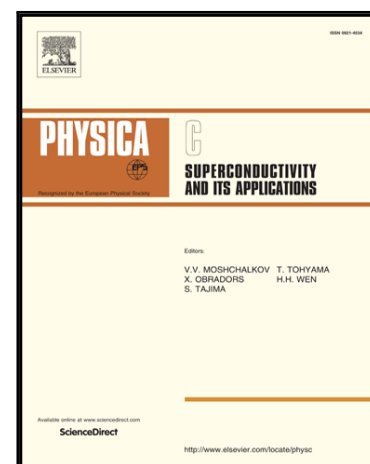


Amplitude distributions of dark counts and photon counts in NbN superconducting single-photon detectors integrated with the HEMT readout

J. Kitaygorsky , W. Słysz , R. Shouten , S. Dorenbos , E. Reiger ,  
V. Zwiller , Roman Sobolewski

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**Highlights**

- A new operation regime of NbN superconducting single-photon detectors (SSPDs).
- A better understanding of the origin of dark counts generated by the detector.
- A promise of PNR functionality in SSPD measurements.

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