

Abstract Submitted  
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**P-Type Point Contact Germanium Detectors and Their Implementation for the MAJORANA DEMONSTRATOR Experiment** RYAN MARTIN, Lawrence Berkeley National Laboratory, MAJORANA COLLABORATION — The MAJORANA DEMONSTRATOR will perform a search for the neutrinoless double-beta decay of  $^{76}\text{Ge}$  using p-type point contact (PPC) high-purity germanium detectors. These detectors provide several advantages over conventional germanium detectors, such as the ability to identify backgrounds from gamma rays scattering multiple times and the potential to be operated with a very low level of electronic noise. This talk will give an overview of these detectors, some of their characteristics as well as the electronics design that has been chosen for operating them in the MAJORANA DEMONSTRATOR.

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