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A category of extremely-fast events (EFEs) in pPCGe detectors used in CDEX

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The p-type Point Contact Germanium (pPCGe) detector is used in light WIMPs searches by the China Dark matter EXperiment (CDEX). With better rise-time resolution, a category of extremely-fast events (EFEs) can be clearly recognized and its origin had been experimentally identified. The analysis of EFEs could help to understand the background origins, which is very important for the detector structure design and material selection in the next phase. In addition, related parameters to identify the EFEs could also be used to improve the energy resolution at high energies.

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