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Low energy reconstruction of GRB221009A with LHAASO-WCDA

GRB221009A produced fruitful data on WCDA. In WCDA trigger mode (TM), 2000-ns data around the trigger time are packed as raw events. Those raw events will then be processed through the noise filter software, which keeps the 200-ns data around the pre-reconstructed shower front as reduced events. Those data dropped in the noise filter process are a sample of triggerless data, which are clean of large showers and potentially contain small showers. We reconstructed those data with known direction (the GRB direction) and stricter trigger condition to resolve low-energy events below the current TM threshold.

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