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Development of a borehole detector with nuclear emulsions

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We are currently developing a borehole detector using nuclear emulsions. Because of the high resolution of nuclear emulsions, the detector can be inserted into the borehole whose diameter is 75mm without losing angular accuracy or other performance characteristics even if the size of nuclear emulsions is reduced. Furthermore, no power supply is required. In this poster, we will report the current status of the detector development.

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