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Application of muography with nuclear emulsions for the observation inside levees

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Nuclear emulsions with high positional resolution have long been used in particle physics experiments. In the field of muography, it has recently become known around the world as one of the techniques for imaging the inner structure of nuclear reactors and pyramids. We considered using nuclear emulsions which are compact, power-less, waterproof to observe the density distribution inside a levee for safety inspections of levees, since flooding associated with recent extreme weather events has caused levee failures and extensive damage to the surrounding population in Japan. In this presentation, we will report on the installation of nuclear emulsions inside a flume pipe, which began in the fall of 2021, and observations made throughout the year.

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