

**Development of Nuclear Emulsion Technology  
and an application to Muon tomography  
-Emulsion Gel Development-**

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We will report the status and the plan of the new R&D of the Nuclear Emulsion Technology.

In this presentation, we will show the subjects relating to the Emulsion Gel development. From 2010, we started the gel R&D by installing an emulsion production system in our laboratory. One of the aim is to tune the gel properties to the next generation automated emulsion read-out system. By one year work with a Fuji-OB engineer, nuclear emulsion of which sensitivity is about 3 times higher than the commercially available one has been realized.