

**Development of Nuclear Emulsion Technology  
and an application to Muon tomography  
-R&D of the next generation read-out system-**

**Toshiyuki Nakano, Masahiro Yoshimoto, Ryosuke Komatani,  
Kunihiro Morishima, Naotaka Naganawa, Tatsuhiko Naka,  
Osamu Sato and Mitsuhiro Nakamura**

*F-ken, Nagoya University, Japan*

We will report the status and the plan of new R&D of the Nuclear Emulsion Technology. In this presentation, we will show the subjects relating to the automated nuclear emulsion read-out system. The next generation automated read-out system HTS under development will be 100 times faster than SUTS which is the currently fastest machine in the world. HTS will realize the read-out speed of 1m<sup>2</sup>/h. and the total read-out capability of several 1000m<sup>2</sup> per year.