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Report on the trench excavation of pseudotachylyte along Nojima seismic fault.

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It has known that the fault rock including pseudotachylyte from Nojima records the details of physical processes during seismic slips. A trench 18m long was excavated and huge amount of fault rocks were sampled by about 25 members from 8 universities and 2 geologic companies as a project of Fault Anatomy Project.

The fault plane strikes N40E and dips 85SE. Within granitic cataclasite on the SE-side,

thin layers composed of thinly alternating layers of pseudotachylyte and consolidated fine fault gouge are developed. Sampled fault rocks are now analyzed.

Nojima fault was activated at the 1995 Hyogo-ken Nanbu earthquake. Fault rock complex of pseudotachylyte and consolidated fine gouge was found on the shear zone at Hirabayashi village. It has already known by Otsuki et al.(1999) that it records the details of physical processes during seismic slips. In order to serve many geologists with this imprtant samples, trench was excavated there. They are now analyzed complehensively. In the poster session, we will present some photographs of fault rocks and fault structure and fault rock samples.