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TL and ESR ages of the Quaternary Takidani plutonic rock, Japan Alps, Japan

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http://bas.earth.tohoku.ac.jp/index-j.html

The Quaternary Takidani plutonic rock is distributed along the major axis of the Japan Alps. The Takidani pluton was composed mainly from granite and granodiorite, and it shows reverse zonal structure.

TL ages of quartz in the granitoid are 84 ka in the northern part of the pluton and 129 ka in the middle south part, and that of quartz vein is 88 ka. ESR ages determined using Ti center were 100, 135 and 88 ka, respectively. These ESR ages are well coincided to TL ages.

TL ages indicate elapsed time of which temperature condition is less than approximately 70C. TL ages in the main ridge and south parts of the Takidani pluton are older than those in the northern part.