

## Single grain method of TL dating for volcanic quartz

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Single grain method is an useful method of TL dating for volcanic products. This needs a few quartz grains, theoretically only one grain, because each grain gives a TL age. But this method has a large problem, the correction for the effect of repeatedly heating grains. In this study, the effect of repeatedly heating was experimented by using quartz grains from a tephra of Koze Volcano. C-14 age of 21 Ka was yielded from charcoal in this tephra overlying on AT tephra(24-26 Ka). TL growth curve of each grain was determined using the regeneration method and corrected for the effect of repeatedly heating. As a result the quartz grains gave age histogram between 20 to 30 Ka with a peak at 25 Ka. Detail of TL measurements and problems to get precision of age data are discussed in session.