

## TL AND OSL DATING OF K-FELDSPAR

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Thermoluminescence and Optical dating are the two main luminescence techniques, the first one being much older than the other one, which was initiated as a dating technique with work of Huntley et al (1985). Both of them are useful not only for archaeological potteries but, also for geological materials. In the present work, a pink feldspar called PF and a redish potassic feldspar called RF were obtained, respectively, from a mine close to S.Paulo city and one close to Belo Horizonte city. The impurity analysis (atomic spectroscopy) indicated 723 ppm of Fe in RF and 192 in PF x-ray fluorescence technique indicated 18.2 % molecule in both RF and PF. Both Fe and Al are basic for TL and OSL emission. The TL glow curve presented short-lived 150oC peak and long-lived 225oC, 300oC and weak 370 peaks. 300oC peak was used for dating. TL vs. dose curve as well as OSL vs. dose curve produce accumulated dose  $D_{ac}$  and using annual dose rate of 1.8 mGy/year an age of  $1685 \cdot 10^5$  years for RF and  $3182 \cdot 10^5$  years for PF.