## Comparison of redox states between the ultramafic bodies of Xigaze and Luobusha Ophiolites, Tibet, China

XIANG-KUN ZHU, YUAN HE, YU-WEI SHE, HONG-QING WAN

MNR Key Laboratory of Deep-Earth Dynamics, MNR Key Laboratory of Isotope Geology, Institute of Geology, Chinese Academy of Geological Sciences, Beijing 100037, China

The tectonic setting of podiform chromitite formation till remains highly debated. There is a close correlation between tectonic settings and oxygen fugacity (fO2). Here we present results of fO2 of chromites determined by Mössbauer spectrometry from both the Luobusha and Dazhuqu areas along Yarlung Zangbo ophiolite belt, South Tibet.

The fO2 values and Cr# in chromites from lherzolites and harzburgites of both areas are similar to those of abyssal peridotites, indicating that they may be residues after partial melting at spreading centers. However, both dunites and chromitites from the Luobusha have high fO2 values and Cr#, showing an affinity to boninitic melts.

Study in processing is going to address further the relationship between the tectonic setting the chromitite formation.