Mc-010 Room: C409 Time: June 9 11:15-11:30

Genetical relationship between the kimberlites and carbonatites from the Shandong province, China -Sr and Nd isotopic study-

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The Sr, Nd, C and O isotopic compositions of the kimberlites and carbonatites were measured and the genetical relationship between them was examined.

The kimberlites from Mengyin, Shandong province have epsilon Sr and epsilon Nd values close to the CHUR.

The carbonatites from Tongshima and Badou, Shandong province have positive, high epsilon Sr values and negative, low epsilon Nd values. They are different from those of the kimberlites.

Delta 13C and delta 18O values of the carbonates contained in the kimberlites are different from those of the carbonatites.

On the basis of the isotopic results, it is concluded that the kimberlites were not genetically related to the carbonatites in Shandong province.