

质谱精确测定新沂榴辉岩Sm-Nd同位素年龄

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摘要

关键词

分类号

Sm-Nd Ages Determination by Mass Spectrometry on Eclogite from Xin Yi

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Abstract Sm-Nd dating on three eclogite bodies from Tiquishan, Xinyi in the northern Jiansu yield the following new age results: 212, 217 and 222 Ma, respectively. The isochron age of three eclogites and six minerals is 217(5 Ma, MSWD=0.56, (Nd(T))=-2.9. The Sm-Nd age of 217 Ma is adopted as the formation of Tiquishan eclogite body during ultrahigh pressure metamorphism. The petrogenesis of the eclogites shows a mantle origin with a small amount of lower crustal contamination. The evidences show that Su ad Lu blocks used to be a part of Qinling-Dabie fold zone. The collision period between the Sino-Korean and Yangtze blocks occurred in late Triassic.

Key words

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