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摘要:

岳西县石关混合岩属于原北大别变质杂岩的一部分。锆石SHRIMP U-Pb定年结果: 第一次变质时间为232 Ma, 第二次变质时间为207Ma, 相当于晚三叠世晚期。复合锆石的核部(继承锆石), 为发育韵律环带的岩浆碎屑锆石, 年龄为378和331Ma, 暗示其原岩非岩浆岩, 而应为沉积岩; 研究结果还表明, 北大别石关混合岩经历了两次变质作用: 1) 232 Ma (n=5加权平均年龄); 2) 退变质作用, 时间为207Ma。与苏鲁地区超高压变质和退变质时间一致。

关键词: [锆石SHRIMP U-Pb定年](#) [混合岩](#) [岳西石关](#) [大别超高压变质带](#)

SHRIMP U-Pb dating and Geological Gignificance of Migmatite in Shiguan of Yuexi Cou Mountains [Download Fulltext](#)

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Abstract:

Shiguan migmatite of Yuexi County, belong to the part of former North Dabie Complex. The re-dating shows: the first time of metamorphism is 232Ma, equivalent to early period of Late Triassic. The second metamorphic is 207Ma, equivalent to late period of Late Triassic. There are prosodic clitellum in (inherited zircon), and that's detrital zircons from the magma, the age value of 560, 444, 394, 378 and 331Ma. These phenomena suggest that the original rock is not magmatic rocks, but sedimentary rocks. Research shows that the Shiguan migmatite of the North Dabie has gone through two times of metamorphism: 1) ultrahigh-pressure metamorphism, the time of 232 Ma (n = 5, mean age); 2) retrograde metamorphism, the time of 207Ma. The time of 207Ma is consistent to time of ultrahigh-pressure metamorphic and retrograde metamorphism in Sulu region.

Keywords: [SHRIMP dating](#) [zircon](#) [migmatite](#) [Shiguan](#) [Yuexi County](#) [Anhui Province, the ultra-high of Dabie Moubtains](#)