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南秦岭金池院与张家坝岩体磁组构特征和构造意义 [点此下载全文](#)

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摘要:

秦岭造山带勉略(勉县—略阳)缝合带北侧的金池院和张家坝岩体的磁组构特征显示, 其平均磁化率 K_m 低于 $1000\mu\text{SI}$, 校正磁化率各向异性度 PJ 小于1, 为流动磁组构特征。磁化率椭球体形态参数 T 反映两岩体总体分别以挤压和拉伸应变为主, 而又明显观察到两岩体边缘近平行于岩体边界、内部相对混乱的磁面理分布特征。这些磁组构特征反映了岩体形成时勉略缝合带闭合的 NNE—SSW 向挤压作用仍然存在, 但相对主造山期已较弱, 其磁组构主要形成于岩体侵位时的侧向挤压作用。本文认为, 金池院与张家坝岩体形成于印支期勉略缝合带闭合之后的后碰撞环境, 是后造山过程由挤压向伸展体制转化时期的产物。

关键词: [磁组构](#) [岩体](#) [侵位](#) [南秦岭](#) [勉略\(勉县—略阳\)缝合带](#) [陕西](#)。

Magnetic Fabrics and Tectonic Implications of Jinchiyuan and Zhangjiaba Plutons in Southern Qinling Mountains [Download Fulltext](#)

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Abstract:

The Jinchiyuan and Zhangjiaba plutons are located to the north of Mianlue (Mianxian—Lueyang) suture zone in southern Qinling Mountains. The values of mean magnetic susceptibility K_m are mainly less than $1000\mu\text{SI}$, while corrected anisotropy degree PJ less than 1.1, which can be interpreted as flow magnetic fabrics. The shape parameter T of the magnetic susceptibility ellipsoid shows that the Jinchiyuan and Zhangjiaba plutons are respectively dominated by compressional and tensile deformation. However, it is obvious that most magnetic foliations of the samples on the margin are parallel to the boundary of the granites, and the inner ones are relatively disordered. The characters of magnetic fabrics reflect that the NNE—SSW compression still existed while the emplacement, but were much weaker than that of the main orogeny period, and magnetic fabrics of the two plutons are mainly formed in the lateral extrusion during the emplacement. This paper advocates that the plutons formed in the post collisional tectonic environment after the closure of Mianlue (Mianxian—Lueyang) suture zone in Indosinian, and are the products of post orogeny while the tectonic regime changing from compressional to tensile.

Keywords: [magnetic fabrics](#) [pluton](#) [emplacement](#) [southern Qinling Mountains](#) [Mianlue \(Mianxian—Lueyang\) suture zone](#) [Shaanxi](#)

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