Accepted Manuscript

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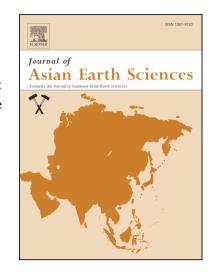
PII: S1367-9120(17)30700-9

DOI: https://doi.org/10.1016/j.jseaes.2017.12.026

Reference: JAES 3358

To appear in: Journal of Asian Earth Sciences

Received Date: 28 December 2016
Revised Date: 12 December 2017
Accepted Date: 13 December 2017



Please cite this article as: Qiu, X-F., Ling, W-L., Liu, X-M., Lu, S-S., Jiang, T., Wei, Y-X., Peng, L-H., Tan, J-J., Evolution of the Archean continental crust in the nucleus of the Yangtze block: evidence from geochemistry of 3.0 Ga TTG gneisses in the Kongling high-grade metamorphic terrane, South China, *Journal of Asian Earth Sciences* (2017), doi: https://doi.org/10.1016/j.jseaes.2017.12.026

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Evolution of the Archean continental crust in the nucleus of the Yangtze block: evidence from geochemistry of 3.0 Ga TTG gneisses in the Kongling high-grade metamorphic terrane, South China

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Abstract

Archean Tonalite-Trondhjemite-Granodiorite (TTG) rocks are scattered within the Kongling high-grade metamorphic terrane (KHMT) in the northern South China block. A comprehensive geochronological and geochemical study is carried out on the Taoyuan granitic gneisses, a newly recognized TTG suite in the northwestern KHMT. This suite has long been regarded as a Mesoproterozoic magmatic pluton, but U-Pb zircon ages of

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