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Origin of pegmatites and fluids at Ponta Negra (RJ, Brazil) during late– to post–collisional stages of the Gondwana Assembly

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Abstract

The Ponta Negra Pegmatites (PNP), part of a pegmatitic province in Rio de Janeiro State, Brazil, crop out along an intensely deformed, medium– to high–grade metamorphic area that is proximal to a crustal–scale thrust zone developed during the Brasiliano/Pan–African Orogeny. Fieldwork shows that the pegmatites formed in two distinct stages: (i) syn–collisional leucosome veins (Group I) conformable with the tectonic foliation of the gneissic host rocks and (ii) late– to post–collisional dykes (Group II) that cross–cut the same tectonic foliation at a high angle.

In this paper, we use geochemistry of whole–rock and mineral separates (alkali–feldspar and biotite), fluid inclusion microthermometry and stable isotopic ($\delta^{18}\text{O}$, δD , $\delta^{13}\text{C}$) determinations on minerals (quartz, alkali–feldspar, biotite and magnetite)

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