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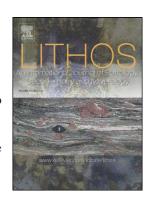
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## ACCEPTED MANUSCRIPT

# 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 ( $\delta^{18}$ O,  $\delta^{13}$ C) determinations on minerals (quartz, alkali–feldspar, biotite and magnetite)

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