

## Tourmalinisation in peraluminous granitic context: from experiment to thermodynamic modelling

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Julien Fort, Stanislas Sizaret, Michel Pichavant, Arnault Lassin, Johann Tuduri, et al.. Tourmalinisation in peraluminous granitic context: from experiment to thermodynamic modelling. EGU General Assembly 2021 - VEGU21, Apr 2021, Virtual Event, Austria. 10.5194/egusphere-egu21-11559. insu-03322142

## HAL Id: insu-03322142 https://insu.hal.science/insu-03322142v1

Submitted on 18 Aug 2021

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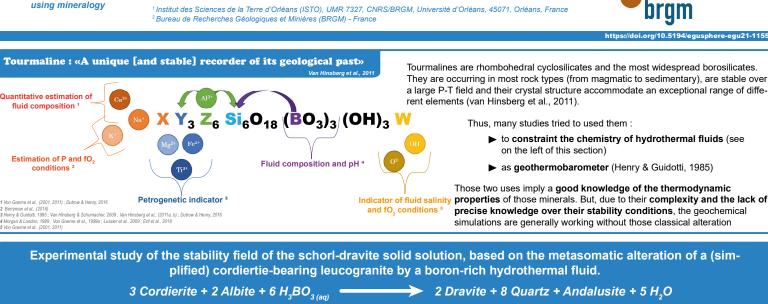


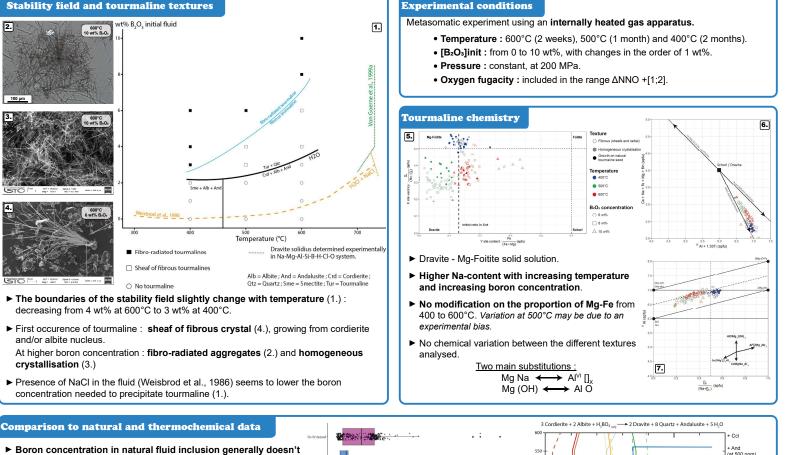
## **Tourmalinisation in peraluminous granitic context : from** experiment to thermodynamic modelling

Session GMPV5.1 : Solving geoscience problems using mineralogy

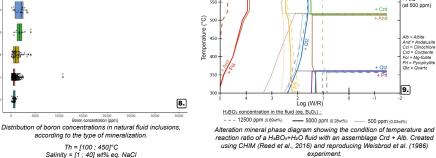
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- exceed 1wt%, even in systems known to present tourmaline as an hydrothermal alteration product (8.).
- In geochemical models, tourmaline crystalise even with just 500 ppm of H<sub>3</sub>BO<sub>3</sub> in the fluid and always as a Mg-foitite (9.).
- However, our experiments show a stability field requiring higher boron concentration to make tourmaline crystallise (1.).
- This difference with the fluid inclusion can be explained by the high salinities presented in those contexts
- The actual thermodynamic properties seem to overestimate tourmaline stability field.





9.

References hav and Petrology v 171 n 31