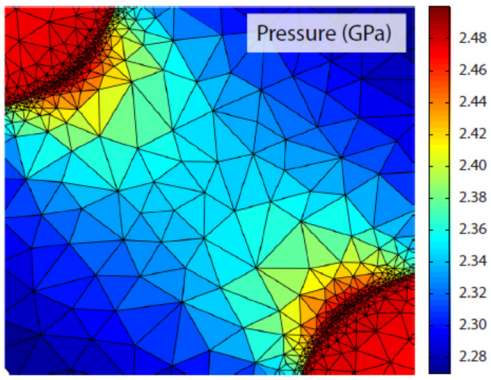
Freie Universität Berlin

Geowissenschaftliches Kolloquium

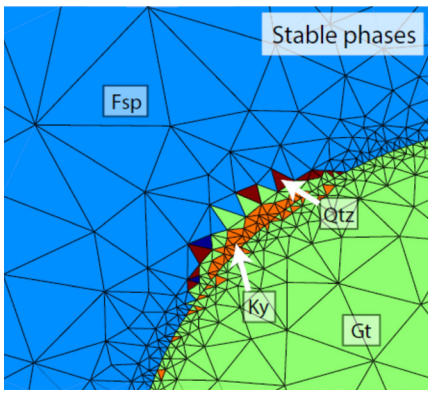
Chemical equilibrium in rocks and minerals under stress

Donnerstag, 17. November 2016 - 16.15 Uhr

Johannes Vrijmoed
(Freie Universität Berlin)



Many phenomena in the Earth's interior can be explained by mineral reactions and phase transformations. Mineral reactions greatly affect the physical properties of Earth materials and impose first order controls on geodynamic processes. Differences in mechanical properties of minerals lead to heterogeneous pressure distribution in rocks under stress.



Here, the influence of stress and pressure variations on phase equilibrium in rocks and minerals is presented. Example calculations using a newly developed methodology and software show the potential of an alternative way of interpreting microstructures and compositional zoning in minerals.

Words about myself:

Studied at the VU Amsterdam, B.Sc. in structural geology, M.Sc. in metamorphic geology, structural geology, geochronology, VU Amsterdam and Utrecht University. PhD at the Physics of Geological Processes at the University of Oslo, field metamorphic geology, geochronology, numerical modelling. Several Postdocs at University Oslo, at UCSB in Santa Barbara, Junior lecturer at UNIL in Lausanne, Postdoc at ETH Zurich. Currently at FU Berlin.

Layout: FUB GeoPal Medienbüro, Jan Evers 20161115

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