

# Geowissenschaftliches Kolloquium

## *Tectonic pressure: its nature and significance*

Donnerstag, 18. Januar 2018 - 16.15 Uhr

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Differential stresses exist in a deforming lithosphere. These tectonic stresses cause a pressure deviation from the lithostatic pressure which is often termed tectonic pressure. A common assumption is that tectonic pressure is small and short-lived so that pressure magnitudes applied to metamorphic reactions are accurately quantified by the lithostatic pressure. However, the existence of mountains and the Tibetan plateau for several millions of years indicates that tectonic pressure is significant and also allows estimating the pressure magnitude.



**Stefan Schmalholz** is professor for tectonics and geodynamics at the University of Lausanne. He received his PhD from the ETH Zurich and worked as researcher at the University of Oslo and the ETH Zurich. His main interest is the quantification of thermo-mechanical processes acting during lithosphere deformation.

Layout: FUB GeoPal Vanessa Skiba, 2017/2021

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