

Geowissenschaftliches Kolloquium

Tectonic and climate controls on exhumation in the Pamir Mountains

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The Pamir Mountains are an active collisional orogen that features tectonic, topographic and climatic extremes: In the northern Pamir rapid shortening causes large-magnitude shallow seismicity. Beneath the southern Pamir, intracontinental subduction results in deep seismicity ≤ 200 km. The western Pamir is dominated by syn-orogenic extensional gneiss domes. Its rugged mountain topography contrasts with the low-relief, high-altitude plateau in the arid eastern Pamir. I will present and discuss our current knowledge of deformation and erosion in the Pamirs.



Dr. Konstanze Stübner studied Geology and obtained a PhD at TU Freiberg. After postdocs at Dalhousie University (Canada) and Georg-August-University Göttingen she is now research associate at University Tübingen. Her research combines geochronology and thermochronology with structural geology and geomorphology to investigate mountain building processes from the deep crust to the surface.

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