



## 5. Instabilities triggered by normal stress oscillation

Depending on normal stress oscillation amplitude and period we document a spectrum of slip behaviors from slow to fast events.



# 6. Rate-and-State modeling

Our experimental results are compared to a model using rate-and-state friction coupled with a 1D spring-slider.









# 7. Stiffness analysis

At the critical period of 5 s a regular fast stick slip behavior is triggered, to understand this behavior we measure the stiffness

well the behaviour observed experimentally.