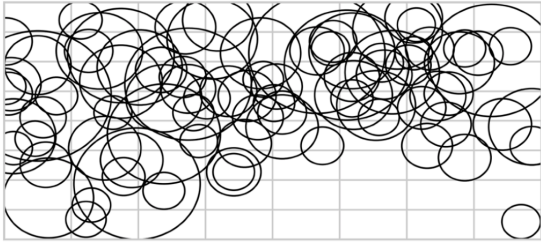
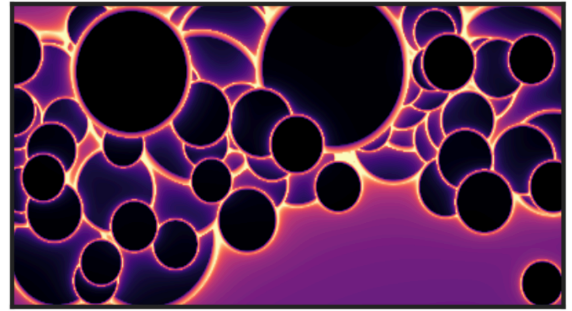


From past seismicity to future ruptures? Initial stress heterogeneity and its effect on rupture dynamics and near-field ground motion

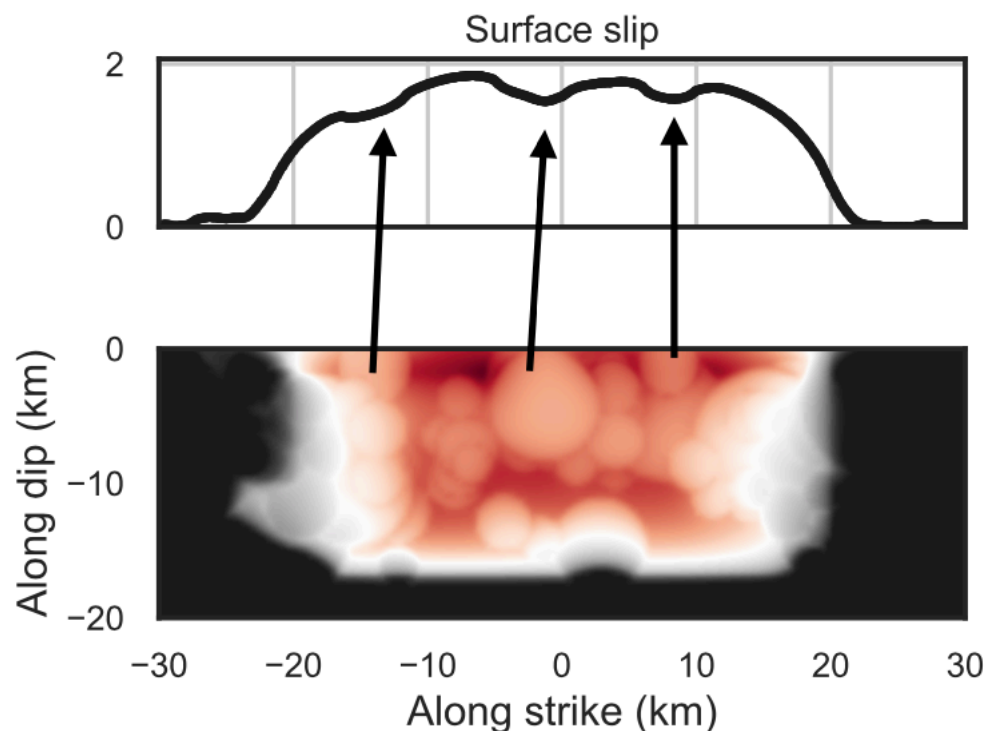


using regional
data
of past seismicity
we calculate
stress
heterogeneity



**We
capture**

high
frequency
radiation
throughout
the
rupture
process



realistic
ground
motion
in
near
field

realistic amounts of
slip & rupture at surface and down-dip

Big picture: Can we find a systematic impact of such heterogeneity in near field to track it on seismograms?

To learn more:
15-min AGU talk [here](#)

synergistic work with
J.P. Ampuero & J. Ruiz