

---

SSS020-15

Room: 302

Time: May 26 13:57-14:09

## Kinetic analysis of dehydroxylations of antigorite and illite shale and their implications on seismic slip

Tetsuro Hirono<sup>1\*</sup>, Wataru Tanikawa<sup>2</sup>

<sup>1</sup>Osaka University, <sup>2</sup>JAMSTEC

We determined kinetic parameter of dehydroxylation of illite and antigorite and their thermal property (specific heat and thermal diffusivity). We also performed numerical simulation of seismic slip with consideration of effects by thermal pressurization and energy loss by their endothermic reactions.