

***Talk on Tuesday, 5. May 2026***

***Start: 10:15 till 11.30 Uhr***

***in HS 424***

***The talk will be presented in English***

# **Error cancell-- Error canx-- Error cancellation**

**Prof. Dr. Roland Pfister**

**Universität Trier**



Cognitive research on error commission has traditionally focused on causes and consequences of error commission as evident in such prevalent markers as pre-error speeding and post-error slowing. In this agenda, errors are extraneous events that the cognitive system reacts to. However, recent findings indicate that human agents act remarkably fast upon errors in that they cancel erroneous actions within

only about 100 milliseconds after initiating a movement. Evidence for this cancellation stems from analyses of response durations – i.e., the time between onset and offset of a keypress response – as well as event-related potentials that we analyzed time-locked to the offset of an erroneous response. These observations challenge common models of how errors affect cognition and action, and they shift our focus from initiating an action towards the termination of ongoing behavior.