

**Plenary Talk** PLV I Mon 8:30 ZHG011  
**The Long Quantum Revolution** — •JÜRGEN RENN — Max Planck  
Institute for Geoanthropologiy, Jena, Germany

The talk will review different phases of the quantum revolution with an emphasis on critical developments in the 1920s and the 1950s. On the basis of joint work in the context of the quantum project of the Max

Planck Institute for the History of Science it will be shown how the exploration of the limits of classical physics yielded results that served as the scaffolding for the first quantum revolution of the 1920s. The talk will further argue that the second quantum revolution associated with the work of Clauser, Aspect, and Zeilinger goes back to the challenges to the Copenhagen interpretation by quantum dissidents like David Bohm.