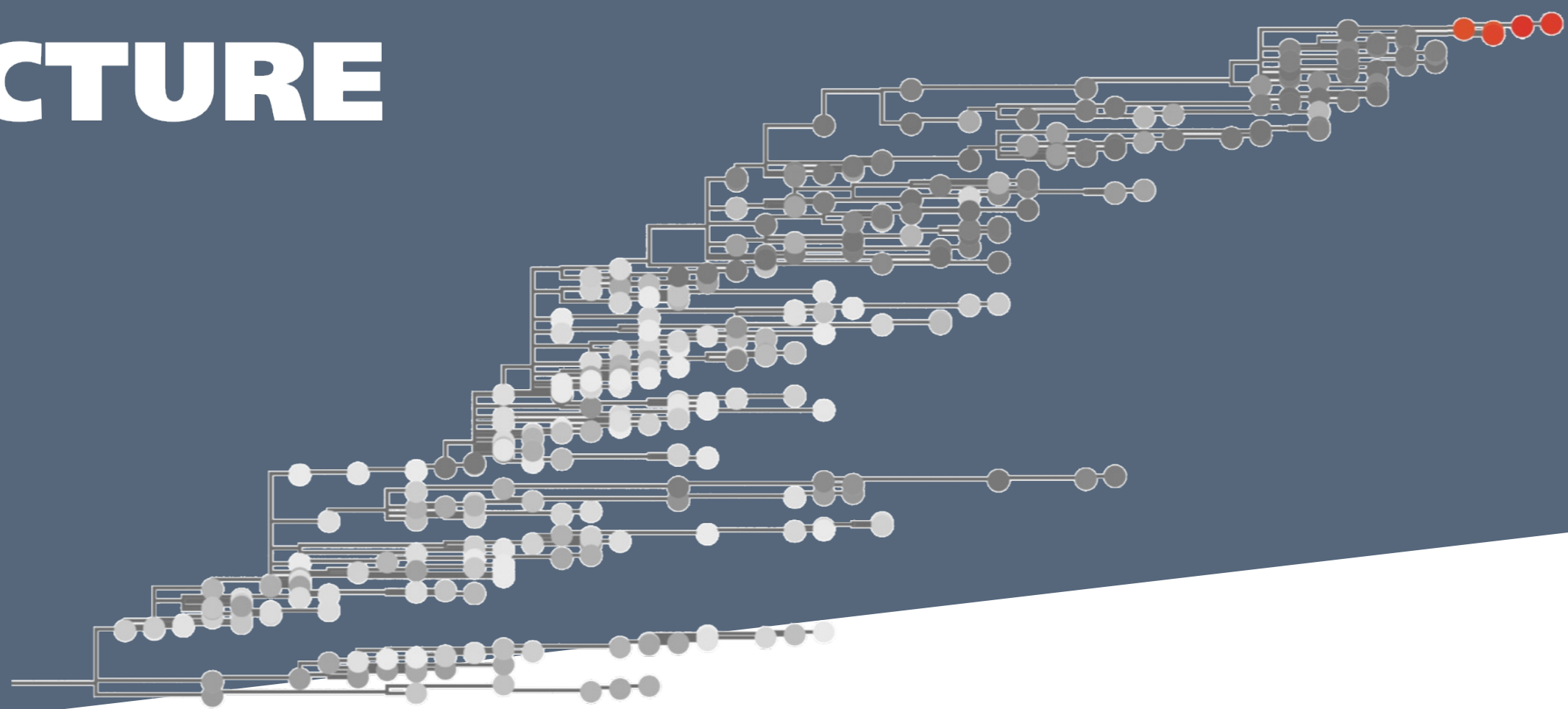


MAX DELBRÜCK LECTURE



**Why is there so much fine scale microbial diversity?
Ecology and evolution in high dimensions.**

**Daniel Fisher
Stanford University**



The DNA sequencing revolution has revealed enormous microbial diversity. Less well known is that, for many species, this extends down to much finer scales with strains, sub-strains, and sub-sub-strains coexisting, directly competing, and continually evolving. Why doesn't "survival of the fittest" drive most of these extinct? After introducing some striking examples, the possibility that such diversity is a general consequence of the complexity of biology will be explored via simple models and statistical physics approaches.

Tuesday, February 14, 2023, 17:00

University of Cologne

Physical Instituts, Zùlpicher Str. 77

Seminar Room 215, Old Theoretical Physics

Hosted by Yuval Mulla and Michael Lässig