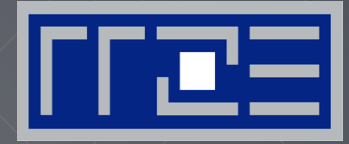


ERLANGEN REGIONAL COMPUTING CENTER



<http://tiny.cc/NLPE-BUW>

Node-Level Performance Engineering

Georg Hager
Erlangen Regional Computing Center (RRZE)
University of Erlangen-Nuremberg

SPPEXA Doctoral Retreat
BU Wuppertal
2018-09-19/20





Day 1	
9:00	Welcome & intro
9:15	Basic node architecture
10:15	Tools: topology, affinity, clock speed
11:00	Microbenchmarking for architectural exploration
11:30	Hands-On
12:30	Lunch
13:30	Introduction to the Roofline model
15:00	Hands-On
16:15	Roofline case studies part 1
Day 2	
9:00	Roofline case studies part 2
10:00	Tools: hardware performance counters
11:00	Hands-On
12:30	Lunch