

Abstract Submitted
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Non-equilibrium DMFT - Polaritonics ANDREAS LUBATSCH,
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versity 136 Frelinghuysen Road Piscataway, NJ 08854-8019, USA — Non-equilibrium
physics recently really becomes important with the progress of ultrafast laser sci-
ences. However in our understanding there is still a gap between equilibrium physics
and the non-equilibrium, even though numerical methods have been advanced in re-
cent years. We compare in this talk novel results at hand with equilibrium physics.
The comparison will show that especially theoretical efforts are needed to explain
many - so far - unresolved problems and to predict novel research on the basis of
ab initio computing. We specifically discuss several non-equilibrium extensions of
DMFT, numerical methods as well as semi-analytical solvers.

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