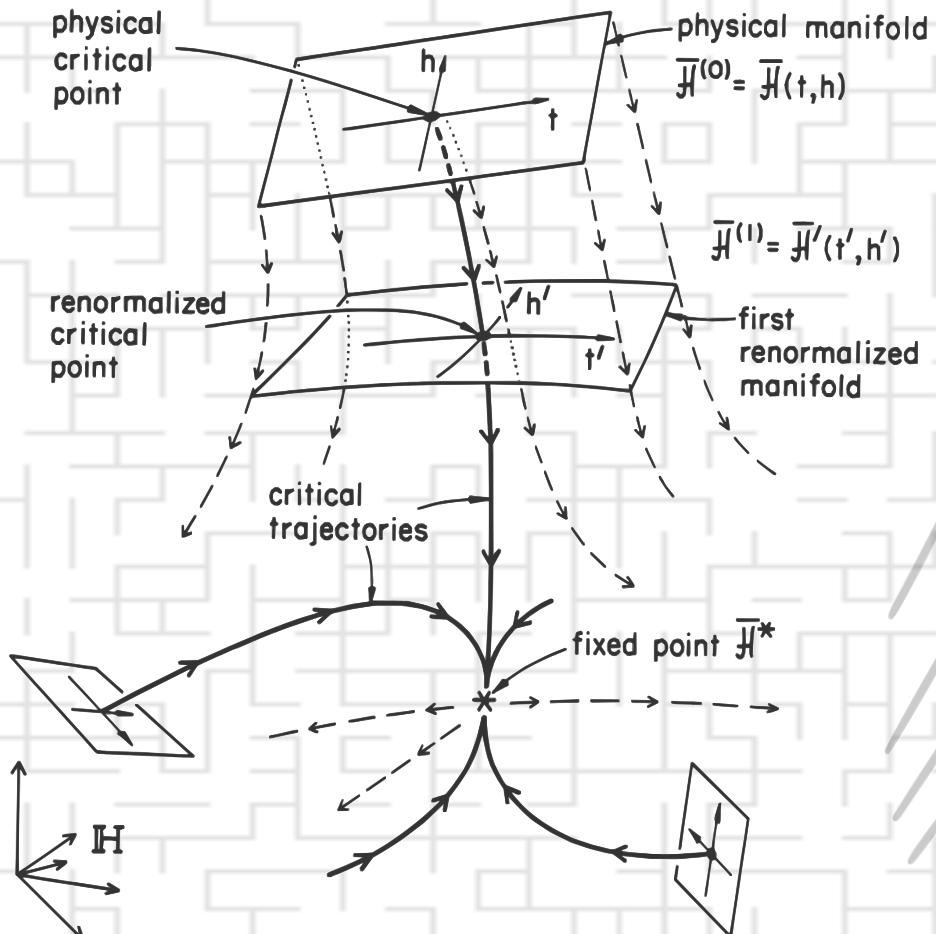


Theory of Critical Phenomena: An Introduction to the Renormalization Group



für Bachelorstudierende nach TP4 und
Masterstudierende (Wahlvorlesung im Schwerpunkt B)

open to anyone interested, lectures will be in English
phase transitions, critical exponents, universality

order parameters and effective field theories,
Landau-Ginzburg Hamiltonian, mean-field

scaling hypothesis and critical exponent relations

Kadanoff scaling theory
position-space renormalization
Migdal-Kadanoff procedure

diagrammatic perturbation theory
 ϵ -expansion

some flexibility based on interests/prior knowledge:
dynamical RG/functional RG/maybe some QFT,QED

Tuesday
12-14 (KSR)

negotiable (email)

Questions, expressions of interest, scheduling issues etc. :
horst-holger.boltz@uni-greifswald.de