① Wetterich : QFT Grundlage • H. Gies

$\partial_t \Gamma = \dots$

$= \dots$

R_k

• Legendre Trafo ⇐ wichtig

• generating functional f(x)

1) $Z[J]$

2) $W[J] \sim \ln Z[J]$

3) $\Gamma[\varphi] \sim W[J] - \int J\varphi \Big|_{\varphi = \dots \langle\varphi\rangle}$

② Herleitung Flow eq. e.g. quark-meson model

Review
• QCD
Königstein et al.

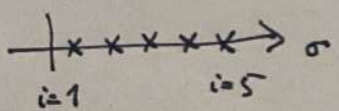
$\partial_t U = \dots$

$\Gamma_k = \int d^4x (\partial_\mu \varphi)^2 \dots$

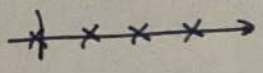
$= \int \frac{d^d p}{} p^2 \dots$

③ Technik: Gaußsche : $f(x,\epsilon) \dots$

grid: $u(\sigma) \to u(\sigma_i) \quad i = 1, \dots, N$

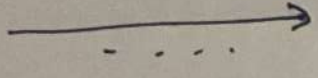


$u(\sigma_i) \to u(\sigma_{i=1} = 0) \dots$



$\partial_t u(\sigma_i) \dots \quad u', u''$

Gaußsche



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