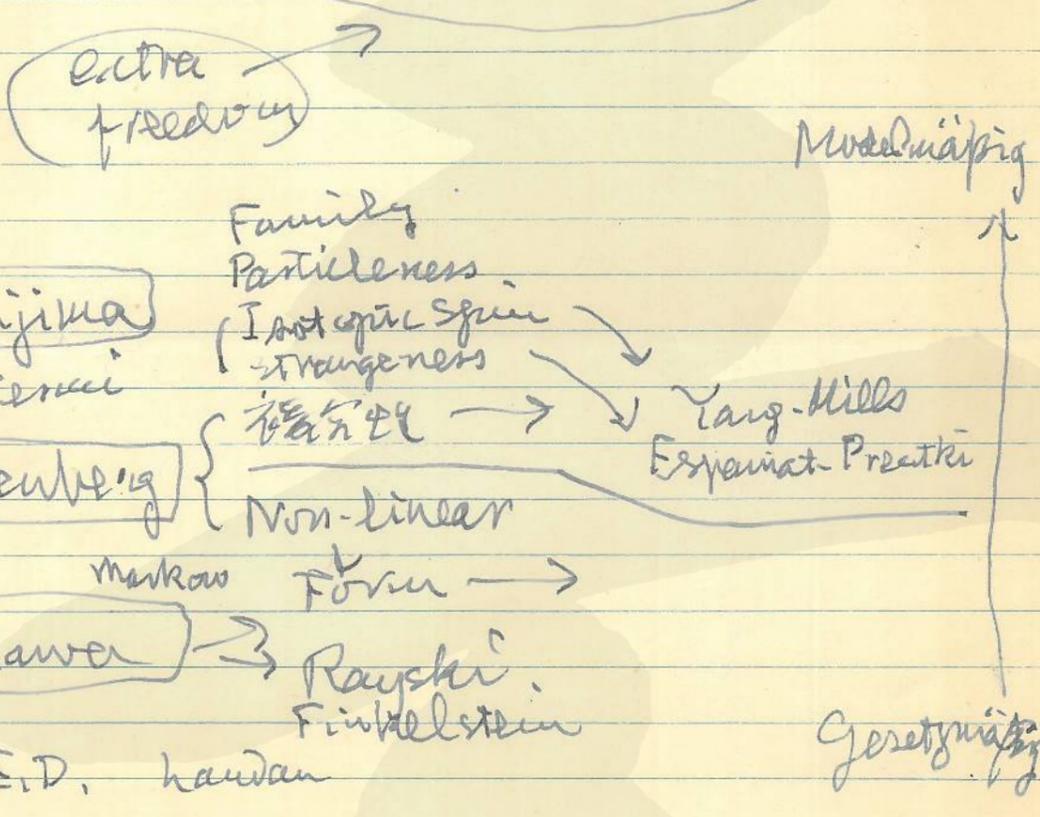


結 算 Nov. ~ Dec. 1955 (10)

classical	Non-linear (propagator)	(structure)	Non-local	internal structure
quantum	Heisenberg	particle-like solution (e.g. quantization)	non-local interaction field	weak coupling
interaction	local			



- (i) Heisenberg 理論の inconsistent かしこさか
- (ii) T. spin の 0 値を 導入 する 可能性 があるか

041-022-005

Non-local 個別論文
Dec. 5, 1955

10⁰⁰ ~ 15⁰⁰ (1)

{ 非局所性 + 因果性
非局所性 + 普遍性

field or non-field

(integrability
causality

universal length

内部空間の構造

indefinite metric

form factor

deformability

dyn.

eq. of form factor*

"So write down an equation of motion for the form-factor means essentially in general the introduction of a new field $\bar{\psi}$ into the discussion"

(mutual form-factors can be found among already known particles)

非局所性 + 因果性の関係

* M. A. Markov, On Non-local Fields and the Complex Nature of "Elementary" Particles (Dyn. def. form-factor)

(N.R.C.C. Tech. Transl. TT-544)

(Uspekhi Fiz. Nauk, 51(3); 317 ~ 341, 1953)

(2)

non-local field

non-local interaction
form factor
↓
field eq.

非局所相互作用
非局所場の方程式

形式 N.h. F. 非局所場の
form $\psi(x_\mu, y_\mu)$

reciprocity

$M(k_\mu)$

$S(k_\mu)$

$$k_\mu^2 = 0$$