$$SF_{c} = \int d^{4}x \left\{ as + \frac{1}{8}vs^{3} - c\Delta s - L \right\} Ss \stackrel{!}{=} 0 \quad \forall Ss$$

$$as + vs^{3} - c\Delta s - L = 0 \quad \text{meg Eap to & at E-L}$$

$$egger lete Set.$$

offh. 
$$h(y) = H + Sh(y)$$
 abol  $H, m$  a horogen  $S(y) = m + SS(y)$  egyptet negoldasai.

$$(a + 3 vm^{2} + cq^{2}) ss_{\chi} = sh_{\chi}$$

$$\chi_{cq}^{-1}$$

$$C(q) = l_{B}T \chi(q) = \frac{l_{B}T}{a + 3 u^{2} + cq^{2}} = \frac{l_{B}T}{c} \frac{1}{\xi^{6-2} + q^{2}}$$

$$\begin{cases}
e^{-2} = \frac{a + 3 \cos^2}{c} = \begin{cases}
\frac{a}{c} & H = 0, a > 0 \\
-\frac{2a}{c} & H = 0, a < 0 \\
\frac{3u(H)^{2/3}}{c(H)^{2/3}} & H \neq 0 & a = 0
\end{cases}$$

 $\begin{cases} \sqrt{\frac{1}{a}} \propto (T - T_c)^{-1/2} \\ \sqrt{\frac{1}{101}} \sim |T - T_c|^{-1/2} \\ H^{-1/3} \end{cases}$ 

~ D hatranyfr. sterrit dingal.

~ Degyre loncentalhabb ((9) alogg hit parthos liselitiel.

d = 3:  $C(-) = \frac{g_{0}T}{c} \frac{1}{4\pi} \frac{e^{-r/\xi}}{r}$   $\rightarrow hit. partia hossi-tent bessenges.$ 

· hitibes viselbedes - "loterens modon eggitt flustvatual"

120 tróp Jewonagueses

· EvO

· Jolytonos szinm. (fug.) sévil

S(2) velta!

 $F_{c} = \int d^{d}v \left\{ w_{o}(\tau) + \frac{2}{2} \underline{s}^{2}(z) + \frac{4}{4} \left( \underline{s}^{2}(z) \right)^{2} + \frac{2}{2} \left( \underline{\partial} \underline{s} \right)^{2} - \underline{L}(z) \underline{s}(z) \right\}$ 

$$(\vec{\nabla}_s)^2 = (\vec{\nabla}_s)^2 + (\vec{\nabla}_s)^2 + (\vec{\nabla}_s)^2$$

o honogen lilit tilben:

m | H

ahol un a fundio-ált uni-i-alitátó negoldás Enne.

• inhangén ten: 5(2) -> 5(2) + 85(2)

$$S(z) = Z + SS(z)$$
 and  $z \neq z$  a honogen that  $S(z) = Z + SS(z)$  and  $S(z) = Z + SS(z)$  and  $S(z) = Z + SS(z)$ 

·X - Eon paens!

$$ass_{x} + vm^{2}ss_{x} - css_{x} = sh_{x}$$

$$(a + vm^{2} - eq)ss_{x} = sh_{x}$$

XT (9) - o transmerilis sensceptibilitàs.

$$a + v m^2 = \frac{H}{m}$$

$$H \rightarrow 0$$
  $\chi_{7}^{-1}(9\rightarrow 0) = \frac{H}{m} \rightarrow \begin{cases} \chi^{-1} & T > T_{c} \\ 0 & T < T_{c} \end{cases}$ 

AH X > 00 X > 00 TC T

loegeistereia-gorbe (vajta X végig lingal! en esal Te-her.)

"Goldstore - bringelæritas"

hours tail transportis lane lació?

$$\int_{V}^{F_{c}} = \int_{C} = \frac{2}{2} \omega^{2} + \frac{2}{2} (\omega^{2})^{2} + \frac{2}{4} \int_{0}^{3} \omega_{2}^{4}$$
Eibös inuniaisal.

(a Lainnadil nen föggt ettöl a 246l)

$$\frac{\partial \mathcal{S}_{c}}{\partial w_{\chi}} = (\alpha + v_{\chi}^{2} + v_{\chi}^{2}) w_{\chi} = 0 \qquad \chi = 1, 2, 3.$$

Toy dup = Sep (a+vm²+3vm²) + zvm2 mp por. def.

$$|v| || (111)$$

$$|v| || (100)$$

pli: 
$$S_{\tau}T_{\tau}O_{3}$$
  $\phi = (\phi, 0, 0)$   
 $LaAlO_{3}$   $\phi = \frac{1}{3}(\phi, \phi, \phi)$ 

eggtengelgé magnes 8 = w+ 2 m 2 + 4 m 4 + 6 m 6 U < 0 eset nus tag stabilizatja veterstatil aggersoly, vely: gjergebb v at vintulajtai. neta stabil histocitis  $a^* = \frac{3}{16} \frac{U^2}{V}$ atalasilas Jolyt- á tulabelás

e példa egy-tergeljő antifemonágresel.

A Hreoló PM

AF Loyt.

V=0 8c = w + 2 m2 + 4 me

The solution of the solution

 $\chi^{-1} = \frac{d^3 l_c}{2m^2} = a + Jvm^4 = \begin{cases} a & a > 0 \\ -4a & a < 0 \end{cases}$ 

X n 1/al

felileti jelenségel.

o felilete jelenil neg nagneses underödes

opl. "féltér"

1 ilanuzionatilie v-12.-8

· C(D's)2 rellé 4-il hatraryal etb.

Jolyadel Sistalyol S spinnetniles terra eure lell felépitani a stalarinariansolat. Atlagter elnélet és landar chélet a Ep. Einil (átlagtér globalis...) o Ising- modell, se vaes, un Eh. hi = ExT Auth (mi) - J [i mi j(i): i leg sizelebbi starstedja i  $\Omega_i = L_i(R_i)$  | londinum - lizelités  $m_i = m_i(R_i)$  | lordinum - lizelités  $m_i = m_i(R_i)$  | lordinum - lizelités (2.) soufejtés m. CC1 Anth (x) x x + x3 + ... h (B:) = 25 t m (Bi) + 3 (m(Bi)) - - - - - (m(Bi+aex)+m(Bi-aex)+... m (R: ±aex) = ~ (Bi) + 0m/ 2x | a + 102m/ a2  $m(R_i + ae_x) + m(R_i - ae_x) = 2m(R_i) + 3 \frac{2m^2}{2x^2} |_{E_i}$ 

ez & putter ênvêyes!

no mint a landou - elvéletben.

no feromenologieus egyötthatól helyett átlægtin elvelet egyithatsi lestres.

no a hit viselleder 12 mpat, abot a let ehêlet élviraleus.