$$f_{x}(x,y) = \frac{\partial f(x,y)}{\partial x}$$

$$d_x(A^a_x, A^b_y) \cdot A^a = A^b f_x(x,y)$$

$$\frac{\xi^{\ell}}{\lambda} = \frac{t^{-\nu}}{\lambda} = (\lambda^{2\nu} +)^{-\nu}$$

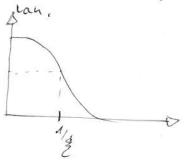
$$((\lambda 9, \lambda^{5}t) = \lambda^{-5} c(9,t)$$

2019.11.20.

- · egyil valt. egyithatója 1-nel valasztható
- · magneses tème is altalanosithato:

$$((9=0, t, H) \cdot \frac{1}{2} = ((\frac{1}{2}, t, H))$$

La lovelæciós Lossa a felertél mélességrél pan.



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→ & is alt. honogén-fr. - e t-nel, H-naé.

$$\lambda = \left| \frac{t_0}{t} \right|^{\nu}$$

$$\frac{\xi(t,0)}{\xi(t,0)} = \left|\frac{t_0}{t}\right|^2 \frac{\xi(t_0,0)}{\xi(t_0,0)} \sim t^{-2}$$

$$\ell_0 T \chi(q,t,H) = ((q,t,H)$$

Estato sszuszeptibilitas

$$\chi(t,H) = \lambda^{\gamma_N} \chi(\lambda^{\prime N}t, \lambda^{\prime M}H)$$

is a'the homogen fr.

$$\lambda^{4/\nu} = \lambda^{1}$$

$$\chi(t, H) = \chi^{\chi} \chi(At, A^{\Delta}H)$$

starmatil.

$$\chi = \left(\frac{\partial m}{\partial H}\right)_T \quad m(t, H) = \chi^{7-5} m(\Lambda t, \Lambda^0 H)$$

$$m = -\left(\frac{\partial f}{\partial H}\right)_{T} \left[\int (f, H) = \lambda^{\gamma - 2\delta} \int (Af, A^{\delta}H) \right]$$

•

lovet le megel:

$$\left(\left(9,0,0\right) = \left(\frac{90}{9}\right)^{3/2} \left(\left(\frac{90,0,0}{9}\right)^{3/2}\right)$$
réges

$$H = 0$$

$$m(t, 0) = \lambda^{\gamma-\Delta} m(\lambda t, 0)$$

$$\lambda t = -t_0 \qquad t < 0$$

$$\lambda = \left| \frac{t_0}{t} \right|$$

$$m(t,0) = \left|\frac{t_0}{t}\right|^{\gamma-\delta} m(t_0,0) n(t)^{\delta-\gamma}$$
Léges

def:
$$m \sim |t|^{\beta} = \Delta - \lambda$$

$$m(O,H) = \lambda^{8-\Delta} in(O,\lambda^{O}H)$$

$$m(O,H) = M_{o} (rog_{2i}/koH)$$

$$M = M_{o} (rog_{2i}/koH)$$

$$A = \left(\frac{\mu_0}{\mu}\right)^{1/2}$$

$$w(0,H) = \left(\frac{\mu_0}{H}\right)^{\frac{8-0}{\Delta}} w(0,H_0)$$

$$S = \frac{S}{\beta}$$

$$S = \frac{S}{\beta}$$

$$\lambda |t| = t_0$$

$$\lambda = \left| \frac{t_0}{t} \right|$$

$$I(t,0) = \begin{vmatrix} t_0 \\ t \end{vmatrix}^{\delta-2\delta} f(t t_0,0)$$

$$= |t|^{-d} (def) \quad fails$$

$$S = -\frac{\partial f}{\partial t} \quad (\text{enthopia stateg})$$

$$C = +\frac{\partial f}{\partial T}$$

$$\beta = \Delta - \gamma$$

$$\beta = \Delta$$

$$\delta = \lambda$$

$$\delta = \nu (2 - \eta)$$

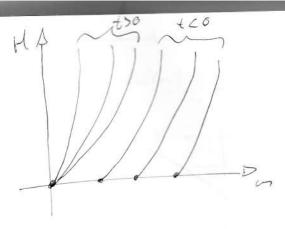
$$2 - \lambda = 2\Delta - \gamma$$

a skalahipoteris

$$\Delta |t| = t_0$$

$$- (t, H) = \left| \frac{t_0}{t} \right|^{-\beta} m \left(\frac{t}{t} + \sigma_0, \left| \frac{t_0}{t} \right|^{\Delta} H \right)$$

$$\frac{m}{|t|^p} = F_{t}\left(\frac{H}{|t|^a}\right) \sim mågnese rettség negadható egy egyráltozós fr. - re
$$\forall t \mid -ra, t \mid -re$$$$



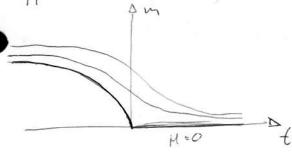
H F F- F- Tt IP

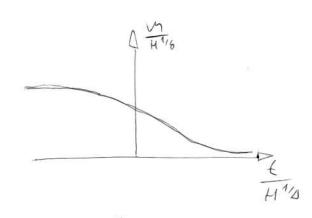
o æz isoternal skala tals Let gårbere.

const. H garbel

$$m\left(t,H\right) = \left(\frac{H}{H_0}\right)^{B/A} m\left(\left(\frac{H_0}{H}\right)^{1/4}t,H_0\right)$$

$$\frac{u_1}{H^{1/8}} = G\left(\frac{t}{H^{1/8}}\right)$$





const m ga-bél

$$\lambda^{\dagger} m = m_0$$

$$\lambda = \left(\frac{m_0}{m}\right)^{1/\beta}$$

$$\lambda^{p} m = m_{0} = m \left(\left(\frac{m_{0}}{m} \right)^{1/p} t, \left(\frac{m_{0}}{m} \right)^{6/p} H \right)$$

~ eggil valt. a masil fv.-e.

$$\frac{H}{u_18} = h\left(\frac{t}{u_1 u_p}\right)$$

t wila

hiperskálatoneny-

· ven løret kezil az ált. honogén fr. tilajdorságból.

(Gizburg - Evitérium)

ha (sm²) (1) Vn gld terfogatban.

=> Landar - elne'let Lonzisetens.

ha ven teljesil: van olga neret VnRd anelyee a (Su?) n O(1)

X ni Rd ~ O(1) definial egg jellerző lossaíságot.

· ha coal I lar. hosse van, alken

R -> const. Rng

x 2 /d ~ O(1)

x 1+1-8-2p+vd

vd - y - 215 = 0]

csul alla ward O(1), ha oct a hiperslailentoning

 $vd = 2\beta + \gamma = 2 - \lambda$

· 2 figge luitilus exponens van.

· Landar - elnélet nen tid a hipershála tövégelsel eggőt

Ceterni d = 4 - en Eivil.

d < 4 : hipers late toming

d > 4: Landar-eliëlet.

a tobbi skalatorieg V diherziöban te gesöl

· Eiséveleti adatol jól alátamasztjál, men csal magneses rsz. eke, hanen bolyadél - gaz atalakulásolna is.

univerzalitas

· L. Kadanoff no vices Smalter isttiles hoose

~ blossositjel a st.-t. blobbobo- vgyanast a unddssent all. mint előtte.

· K. Wilson No RG - transformació ~ bajó itán más vr. lest. To a minimalis hossaigaget noveljit.

RG - transeforació

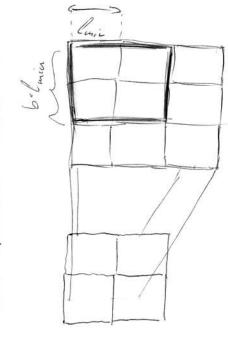
1) Cuin -> b. Cuin

(6>1)

(2) atslatais: x' = x

Chin = 5 Cmin = Chin

1) nem tivialis lépés átlagolone na lui (A (bluin hellain hoests stabadeeg! folokra.



· bloka belot in touteril at ven évoleles.

S fázisté-

S = SA + SZ

1> blain land (A < blank.

Ps eloselásfu.

Ps ne-H, H feltételes szabadenegia

tvansefonáció vtán:

Psine-N

~> eloselás ju létét! tran se jaráció

o "igges" do-s huddió S és S1 azonos strultúnajú $(P_s, S) \Rightarrow (P_{s_1}, S_1)$ $\sim \mathcal{H} \Rightarrow \mathcal{H}' \quad (\text{left. stabulargia})$ $\sim \mathcal{K} \Rightarrow \mathcal{K}' \quad (\text{parachel})$