Dissolution d'une particule d'elumine closes un bain clasholy tique

On considère une perticule sphinque de rayon vo choes un been etetablytique. On suppose que son reyon r une varier on was de temps selve l'égt

$$\begin{cases} \frac{dr}{dt} = -\frac{t}{r} & \text{sites} \\ r(0) = r_0 \end{cases}$$

Ainsi, en notat r= dr on obtist recussint rr=-k,

S: $\overline{t} = \frac{r_0^2}{2K}$ on obtain $r(\overline{E}) = 0$.

eprès un temps $F = \frac{r_0^2}{3t}$.

Dissolution d'une population de partique np (r).

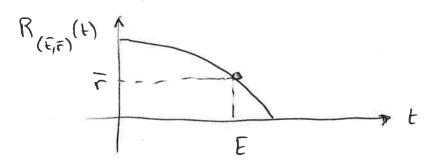
On improve que alte population se dissont Ilon l'égt

$$\begin{cases} N^{b}(0^{b}, L) = N^{b}(L) \\ \frac{gF}{gN^{b}} - \sqrt{\frac{gL}{g}} \left(\frac{L}{L}N^{b}\right) = 0 \end{cases}$$

Si, chans le plus (f,r) on fixe t= E>U, r= F>O, l'équalier de la coule consections live qui rousse per (F,F) est clonure par

$$\frac{d}{dt} R_{(\bar{\epsilon},\bar{\epsilon})}(t) = -\frac{k}{R_{(\bar{\epsilon},\bar{\epsilon})}(t)}.$$

AME: R(F,F)(+) = J=2-2k(+-E)



Notono Np (t) = np (t, R(F,F)(t)) la releur de np su cette lique correstinique

On a
$$\frac{d}{dt}$$
 $N_{p}(t) = \frac{\partial N_{p}}{\partial t} (t, R_{(E,F)}(t)) + \frac{\partial}{\partial t} N_{p} (t, R_{(E,F)}(t)) + \frac{\partial}{\partial t} N_{p} (t, R_{(E,F)}(t)) + \frac{\partial}{\partial t} N_{p} (t, R_{(E,F)}(t))$

$$= -\frac{K}{R_{c}^{2}} \frac{\partial}{\partial t} (t, R_{c}(E,F)(t)) + \frac{\partial}{\partial t} N_{p} (t, R_{c}(E,F)(t))$$

$$= -\frac{K}{R_{c}^{2}} \frac{\partial}{\partial t} (t, R_{c}(E,F)(t)) + \frac{\partial}{\partial t} N_{p} (t, R_{c}(E,F)(t))$$

qui implique

$$\frac{d}{dt} \ln N_{p}(t) = -\frac{k}{(\overline{r}^{2} - 2k(t-\overline{t}))}$$

En Mégnet ou œure

= NP () = + 5KE)

Joess rabbel == (7,7) ogn 7 = (7,7) gn Mastern N. (F. F) = Np (F.F) It down

Kemarens

Suspections wound no (F-AE, r), Nous autogg and

R (E-DE) = (72 + 2KDE

N(F-AE)= C(F2+2KAE) = np (H-AE) [7\$2KAE) (TE-24(F-E)) 2 = (4) N mp(m)

A.N.N. Q = No (4-AE, J=2,2KAE) J.

V (+) = No (E-At) (=2 & K(+-E)) 12. your statement work

Np (E, E) = 72 np (t- 6t, 1=2+2kat) Puisque NCE)= np (E,E), ou obEnt

S = 1mex , Dr = 1mex , Er = 13 , 12 = 1 Dr Box spoorboxxxx Three , Three Approximation numerique