Mogers Leura-Main c Seck. minione aventob

(1) A KTUBU U arentue

· Nartulob

Berjopu burnai X_t = (X_{t,1},..., X_{t,N}) = { e₁,...,e_Ny u.o.p.

· Mp-Bo arentob

$$(S, B(S), \mu_{t})$$

 $\mu_t = \mu_t(\omega, A)$ - repa, zagaronque pacro-e kanviara b μ -7 t; $A \in B(S)$

 $\mu_{t}(S) = 1$ gur box t, ω ; μ_{0} - re aegraenseur

Duranuda Kamiala

$$\mu_{t+1}(A) = \sum_{n=1}^{N} \frac{\int_{A}^{S_{n}} \mu_{t}(ds)}{\int_{S}^{S_{n}} \mu_{t}(ds)} \chi_{t+1, n}$$

(obe ractu takme subucent of w)

7-6. Θτα populgra generalierouro jergest nepy (+t,ω), T.e. виногна crethat aggatubnotts.

Hw AH Mena (w, A) mepa HA W-> M+1 w, A) - w. Ger.

3 Ontimanoner aparenne

Onp. Capaterner s* e S abourognoins y crounda, ecun yo T.4. S* ∈ supp yo (nocuten6 repur)

Lone autonce choàcibs, $\mu_{t} \stackrel{\text{M}}{\Longrightarrow} \delta_{s*}$ n.n. $uge \delta_{s*}$ -uepa Dupaka B 7. s*

976. Cuegyouxee oup. Exbubaventus upequiggiquery: $\forall \ \varepsilon > 0 \quad \mu_0\left(\mathcal{B}_{\varepsilon}(s^*)\right) > 0 \quad \Rightarrow \quad \lim_{t \to \infty} \mu_{\varepsilon}\left(\mathcal{B}_{\varepsilon}(s^*)\right) = 1 \quad \text{n.u.}$ rge β_ε(s*) = {SεS: 115-s*11≤ε3

10: H 820 p. (B(S))20 4970 ps(BE(S)) ->1

T-ma Copateur

$$S_n^* = E X_{t,n} \left(= P(X_t = e_n) \right)$$

360moguonno y croúmba

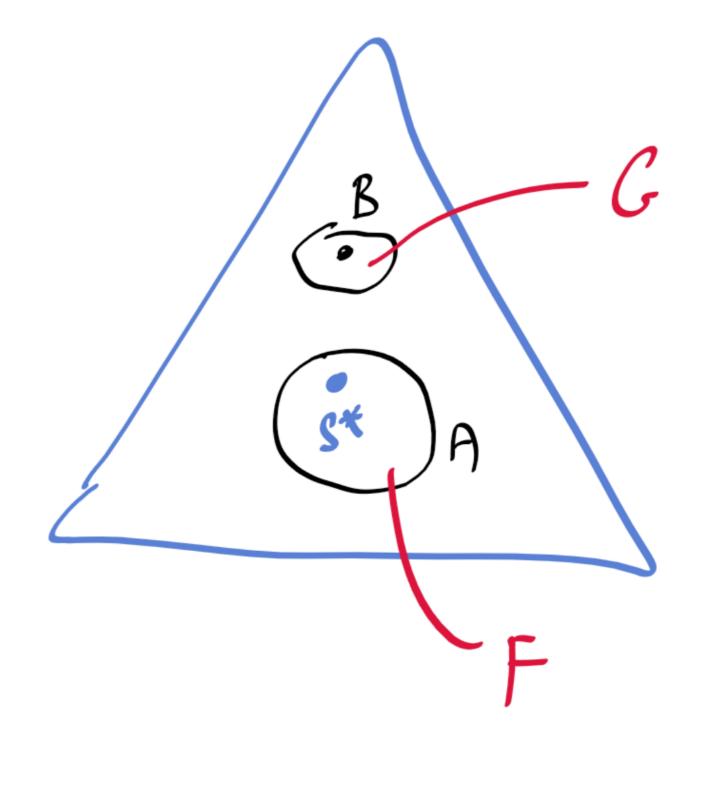
D-lo $A = B_{\epsilon}(s^*)$, ϵ "gotatorno nance"

Bozanen BcS buryhuse u Tanor, 20 gus renoroporo 5>0

min 115-5*11 2 max 115-8*11 + 8 SEB

Hymno nokazato, mo

$$\frac{\mathcal{L}_{\mathsf{t}}(A)}{\mathcal{L}_{\mathsf{t}}(B)} \to \infty \quad \text{n.u.} \left(\text{u.u.} \quad \mathcal{L}_{\mathsf{t}} = \ln \frac{\mathcal{L}_{\mathsf{t}}(A)}{\mathcal{L}_{\mathsf{t}}(B)} \to \infty \right)$$



$$\frac{1}{2} = \frac{1}{2} + \sum_{u=0}^{k-1} (\frac{1}{2}u_{+1} - \frac{1}{2}u) = \frac{1}{2} + \sum_{u=0}^{k-1} (\frac{1}{2}u_{+1} - \frac{1}{2}u) + \sum_{u=0}^{k-1} (\frac{1}{2}u_{+1} - \frac{1}{2}u_{+1}) = \frac{1}{2} + \frac{1}{2} +$$

Myers D_{t+1} = 2_{t+1} - 2_t:

$$D_{t+1} = \ln \frac{\mathcal{L}_{t+1}(A)}{\mathcal{L}_{t}(A)} - \ln \frac{\mathcal{L}_{t+1}(B)}{\mathcal{L}_{t}(B)} = \sum_{n=1}^{N} \ln \frac{\frac{1}{\mathcal{L}_{t}(A)} \int_{A}^{S} S_{n} \mathcal{L}_{t}(ds)}{\frac{1}{\mathcal{L}_{t}(B)} \int_{B}^{S} S_{n} \mathcal{L}_{t}(ds)} \times_{t+1,n}$$

Torga
$$E_{t} D_{t+1} = \sum_{n=1}^{N} e_{n} \frac{\frac{1}{\mu_{t}(A)} \frac{S}{A} S_{n} \mu_{t}(ds)}{\frac{1}{\mu_{t}(B)} \frac{S}{B} S_{n} \mu_{t}(ds)} S_{n}^{*} = : \sum_{n=1}^{N} S_{n}^{*} e_{n} \frac{F_{n}}{G_{n}}$$

B cuny bungunocia A, B uneen
F∈A, G∈B

Tenops busopour ξ u δ nomino egeners upaby vo routs > 0 gar nosux F u G (upu y wobin $S_n^*>0$ gar box n=> min $F_n>0$)