## lexyua Ng

Pt 
$$(+) = \underbrace{\downarrow}_{VITH} e^{\frac{1}{2}} \times_{0} = 0$$
 $(+) = \underbrace{\downarrow}_{VITH} e^{\frac{1}{2}} \times_{0} = 0$ 
 $(+) = \underbrace{\downarrow}_{VITH} e^$ 

 $= I_{(dos)}(0) \int_{0}^{R} P_{t}(1) dt = \int_{0}^{R} P_{$ 

P 5000, dier, 5, ... 5 ... 1 Bo × B, ... × Bn.)

[ B B G B (R), J & O... n-1, n & M)

P [ W 6 & ] & [ S J (w) & B J ] = W { f : [D'; 20] -> R | S f (f (J) & B J ) }

S (R) { (C J 7 D ( ) x ) } x y

€ So(Bo) SS 17 p, Az-Zz-Jdx, ... dx, ...

One Chyperine nove (St) to regularima nove c negative musual supremusur:=  $:= \forall t \in \mathcal{F}_{fin}(T) \setminus \{\emptyset\} \hookrightarrow \{S_t : t \in t^{\frac{n}{2}} - \text{negative musual} \ \text{$G$} \text{ coboxynnoemi}$   $\Rightarrow \text{ econo } \text{ me mange Seokonomic num-Go}, \text{ 18 meoplepe down konomic}$   $\text{Resolve musual } \text{$G$} \text{ coberynnoemic on a ganuoro paintegerouse} \Leftrightarrow$   $\Leftrightarrow \text{$P$} t = \text{$\mathbb{N}$} \text{$P$} \text{$t$} t \in \text{$G$} \text{$IR$}^{t}) \to \text{$D$}(1) \text{$V$} \text{$IS$} t_{0}, \dots, B_{t^{n-1}}) \in \text{$G$} \text{$IR$}^{t} \text{$N$}$  mengopuse Mnogurum mepa

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P_{t} ([w|g|_{t(w)} \in \Pi B_{t}) = \prod_{t \in t} P_{t}(B)
\text{glkapmob} \quad \text{rumnoe}
          V 4 ≠ Ø > 4 ct & Pfin (1) P4 = Pt · (14)
           5 (R4) - (0:1)
                                                                                                                                                                                        ΠBt → Pt [x:t→R|x/4677Pt]=
            5 ( Bt Bt Bt B (R))
                                                                                                                                                                                         =Pt {x:+>R| & x(t)6B; }=
                                                                                                                                                                                        = Pt [ x:t-1R | & x(t) 6Bt]=
                                                                                                                                                                                      = TR (Bt) = TR (Bt)

tet (Bt) = TR (Bt)

7. K tet 1 4 4 B. = 2, 1921=1
 "Дискренний бенти низи" па п= т - проуса с педавашвочии зионени-
   onu, com-or pampegenena c mommounte P.
          N = (N_t)_{t \in \mathbb{N}} - \text{obsgnarenue nyayeva} \mathcal{DSM}

\forall t \in \mathbb{N} \hookrightarrow 3_t Brdiser \stackrel{?}{=} \stackrel{t}{\underset{=}{\leq}} N_J
         Br discr ? Po,1...n-1: $\frac{17}{17}B_J \rightarrow \PN \ \ OEB, \N.6B, \N.+N2EB2..., M+...+Nn.EBn.\] = \text{\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\e
        (BCO) S. S. T. P. (xy-xy-1)dx, ... dxn-1
Q = \underbrace{1B(0)}_{B_1} P^N(N, 6B_1, ..., N_1 - 1M_{n-1} + B_{n-1})^2
ogno n morne => \underbrace{S}_{B_1} \underbrace{S}_{B_1} \underbrace{T}_{B_1} P_1(X_1 - X_{2-1}) dX_1 ... dX_{n-1} \stackrel{?}{=} P^M(N_1 + B_1, ...) (1)
       P" (N, 6B, ,... N, +... + Nn + 5Bh-1) = Q
       \mathbb{R}^{n-1} \xrightarrow{\exists} \begin{bmatrix} \chi_1 \\ \vdots \\ \chi_{n+1} \end{bmatrix} \xrightarrow{\subseteq} \begin{bmatrix} \chi_1 \\ \vdots \\ \chi_{n+1} \end{bmatrix} \xrightarrow{\subseteq} \begin{bmatrix} \chi_1 \\ \vdots \\ \chi_{n+1} \end{bmatrix} \xrightarrow{\subseteq} \begin{bmatrix} \chi_1 \\ \vdots \\ \chi_{n+1} \end{bmatrix}
                                                                                                                                                                                                                       1.1=1 XJ=YJ-YJ-1
                                        unetinal mesope
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= [ [ P(X) P(X2) - P(Xn-1) dx 1 - dxn-1 =  $S(\bigotimes_{j=1}^{n} P_i)$  Leb des repensement  $\overline{y} = L(\overline{x}) \times E(\sum_{j=1}^{n} B_j)$ = 15 Sp. (y-y0) -- pilyn-1-yn2) Jdy ... dyn-1 Q) (1) = (2) => mayerre ogunaxober no konemonepuony pamp-10 (mureu nanomemproversue mi-ba-breux -opinanoba =>) Обобщает. Марковикие процеси с переходиеми пиотностими (Spaynobekoe gb.e- sacrmon cuyon) Brens 2 anyon: 1) renp. Brens 2) guaremose Greens Our (Byzkan annere) JB-Sananobo (namoe, nopumpobannoe), cenarpa-Dennoe, benjembennoe Bekmonnoe up-bo. Jupercagnaia mapa (o-yna bepaamm.) BB:= + omodre P: B× BS(B) → [0;1] 1)  $\forall x \in B$  (B(B)  $\Rightarrow A \mapsto p(x,A) - \Rightarrow mo$  omody-e come beparamountal enque 2)  $\forall A \in B(B)$ ,  $B \Rightarrow x \mapsto p(x,A) - uzurepmua$  omu. (B(B), B(R)) Om Dus 8 = 7 C [0; + b) OET J: 4(t., t.) ETXT, t. Ctz zaganor hepenagune mepur Ptustz: Bx B(B), +tustz, t3 CTXTXT: Lictz(t3 4) Ptustz(F)A)= = Spente (I, dy) Pointz (g, A)

J. Po-Beparmi mena 5-agg. na B(B) Гионда шарковский процесс в узком столем с им-ван монитов brewere T, c nonouvnour pary-en Lo, c repeasonnem Bepasim Ephyte IT St. Ltz ET3 := tryposjece & | trew t(Bos. Bn) & B(B)" P ( Stot Bo, ..., Str 6 Bn) = S. Po (dx.) ( Sp., t, (x., dx.) (Sp., t, (x., dx) ... ~ (5 Ptn-1, tn (xn-1, dxn) ... )) avegember Typosece Spaynoboxoro gb-a (c renp. 4 c guerp Grenenen) abil-ca Maprobiriu Prints (x,dy) = Ptiti (y-x) dy - gugg zamuco Pt, str (x, A) = } przt, (y-x)dy - unmay. zamus One 1) Euro & maproberon projecce T= [n.s |nelo] um T=[0:0) npurieur Prutz (x, A) zabrum monoxo repez tr-tz, no smom maprobania npoyece - ognopognour no byremenn 2) Maproberuie npayer ognopagen no np-by := Pt,, tr (x,A) zabuum marbro repres A-x megembre Eprognoberae gb-e-agnopagnoin u no Gremenn, u no ny-by maprobixin npoyen Отр Марковский процек в инфокан стокие споборон 1 nepersognon Bep-new smo nadop maprobixux nurseuch 18 Yeraw Curouse) Commu nordopsin D nepersognion bep men u c

cogregomoremorum & morron B nanon juamp u

Po,50: B(B) AA H (ACB (60) = S(4) = { 1, To €A Упр Стандарттое бразповетое две как тарковский прозек 6 muporone curre P/13to=0, St, Stn) EA)= = S. S. F. Ptata (yx-yx) dy ... dy n 56 ldyo). 4(0, ti...tn) & co; ( ) 1 , octi... Ltn, AE B(R"), 66. EIR Опр чет тарковский процем з 18 обот стоинах) со знап-ями B danaraban yr-le B u havynynne naphulmpib T= [[0], (0)] >
mo coombemmbyrayen waprobina onepamopuoù ravynymañ mayorb-ar un bo oreposition { L. IteT3, repettet Lt-rum onignomon b Ganarobon np-Be Borel (B, R): (L+(+)) (+)=
= S P(x) Port (x, dy). Coomb noughyma B np-Be 5-agg. meg na (B(B) c bery guar-sum: 1 Lt gr)(A) = Sp(x, A)pldy I rem on nome bornayur