

JYSçãÑÑs ys-vÑÓ yÓ ÓÑŸ SéÑ# # úy'½ y'ã

' » K¼g xãY-4~+± g D²(4 Ö . L• T ' N

8.L_wKsZ wM} '

%, ù7WŞ 7WV T " !>7W' K•"!Çü „ ù çè0R! !ß 0

...œ@Ág D²(4 +± L• T &N g+±¶ • T 6FúT ž ú wY N g+±g D²(4 7 Ö C ; Kó= C/8 Ó P w) 7! £ ^ u'! T x 6 k9,,+±Ö. Tw 2(4 ^ u : ò à » , p ^ u +±3ñ5 æ< wE ; , p ^ u MŞ¼,% ý ' ³ - .ú' »K¼g ê w4~+±g D²(4 +±Ö. L• T ' Næ" wµ &#VÖ 4 ä Ö 4 Dª 8pž ò0vŸ , Ö. 4 ± wæ ' ³ K¼g ê w4~N , =• @£ Ö. o# ¼ d^ u=y g U m± ' +±K¼g ê w4~N , +± ' -m7 wY ' ³ ' »9Æ Ž4,, ,L+± L• T 3 ½æ" w *U»*L=2(4 , a d Y E =y L• T i • +±@ÖÄ - ; w ýN g Ñ"n*b#1/2(4 g , 4 ' ³ Á*UË , w É=• ; Ámý æ" ; M4 ? ½" +±A U 0! R! ² w* L\$ Bà /8 Á*U+±->@

œl| œ@Ág D²(4 Ö. L• T ' N K¼g ê w4~ 9Æ Ž4,, ,L 2(4 ¶ • T Z + 31" \$ ÁÆx! Žœœœ' ([4 -. Äœœœœ' 0 4C\$ ÁR!!!KÖ %!0!o!o!xK x K

œœY !>*UN g g D²(4 - N =y Ö c 2(4 &Ü ° Ö c 2(4 &Ö È=ò4 0vt \ ^ g Y &b } &b!A &ß , 0v , p3ñ=+±P Kó= : o2(4 " &N g+±¶ • T 6 Fú>@ž ú "4» * 5•EÓWŞ m%è > ðJ öùUw çj öj] çK =wUw çj "èöo; T "_7WŞ ¶ • m%6üçq Uj öùUw çj i U w ök çjüf"6öiöoU ° 17 M@+±ÖA } Æ Z t 4 ' "2(4 r KÉ) 7!+±N g M£o%KèT ^ u'ä . T3ÓU R! W 7 ">@E E P »N g 4 ± ^ u) 7!+±%KèT ^ u'ä . " , z N g g D²(4 r KÉ 3ü = g ò N » ç g 2M±0Y1 T/ŞKèl %

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D²(4 L• T ' N¹ ¶ • 3 ½ x %è ö \ - .ú\$A 3ü3 ½æ" "° " » - W! Ç+±: 9 H p *L+± , # "U»-> Ç) 7!A , # +±r KÉl £ ý È ³ @ÖÄ A , # p *L - (' +±æ" %ÖÖö0v\$ » L• T /8 Z+± L• T s + %ç ±B=çj &•ú' > >Kçj "• >Öd' " \ ü E 2(4 r KÉHd³± - .ú + .g æ" %U Xö Z "O™A XJ+=ØU' =•.g 1.ú 2(4 'ä . ÷ £ x K! +± 2(%û - .ú'ä .] - .ú'ä . +±D™ (' \ , p +±r KÉ' C : (' %ä . p *L - (' ^!o? O™A X Dð8 & Á+±Ü 3 æ/8 3ñ Ä] KÖ%UE .ú æ" Z è ö¹ ÖÖöF* \ Lt . x "° : 6* , 8ä2(4 r KÉ g c Z+±ä . ÊBf=yg "°%ª &c Xö 1)3'ä . ÊBf=yg "s €2(4 >ñND°T A : o # "° 3L• a'ä . /ŞK!3 %K MÅ% ' C "O™A XJ+ Ü 3 æ/8 +±o ? \ - M!3n)=+± %"A Xö 6* 1)3 £ , a : û 4 • 3 0 +±ò ä °% ê w4~%og - .ú.è • , #2(4 , ,L x "U L• T /8 Z Ä] ³ - " +± Á*U @Ö° % @üU 1 öw•• ý ' ³ - .ú *U ê w4~=•.g r KÉ> +±æ" " @Ñj E .ú æ" ! # '] ? F:2(4 +±r KÉ=y g @Ö% XUçj wU 1 çj ÷ = V *U K¼g ê w4~ %ovüduwü ê w4~çj wi è ¶j o¹ K¼g Ö4~' /ø L• T

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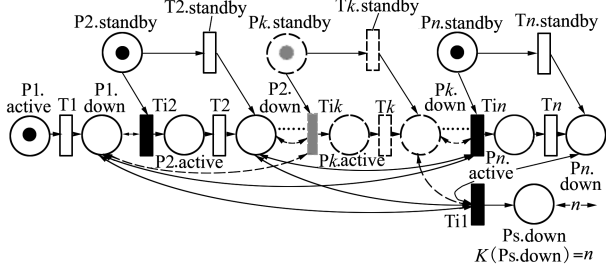
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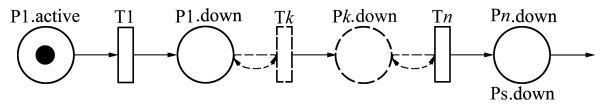
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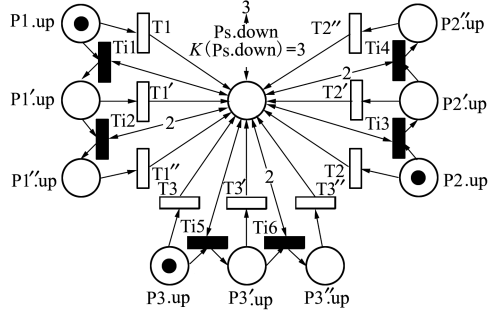
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 £ 0 W, p F * ^ u # " 0Yk W, p ± ä . % ê : Ž Ů ů i
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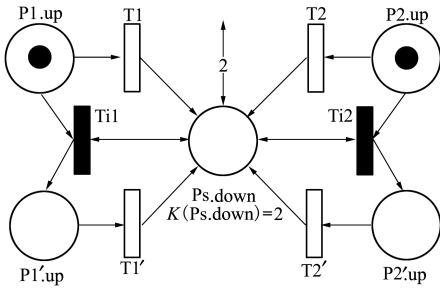
$$\begin{cases} K \% \hat{\epsilon} . \text{üq} = \beta \\ K \% \hat{\epsilon} . \text{üq} = \beta \text{œ} \% = \beta " 0" o \% o \\ K \% \hat{\epsilon} . \text{üq} = \beta \end{cases}$$

ê Ž • ç = • g D 8 œ ž ò 2 (4 ± ± ^ u'ä . % ∈ A ò ∈
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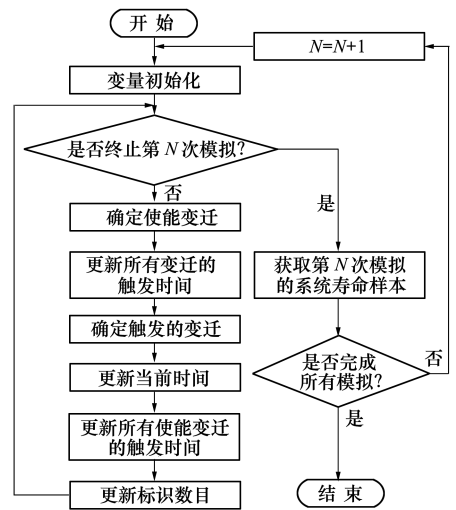


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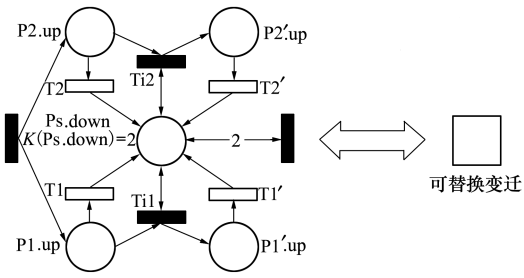
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' OÑÓ œ8ä 2(4 , a d Y %€ z #K! π_{üüœ zW} 3 \ 2(4 , a ±±- Wd Y %

' OÑÓœ→ Ç \ S¹ = m6±±, ,L % É N = N_{1U} "F =•.g m6 N F*¹ = "8 ¼ 34 œ+S F " N = N + ß" - ø 8 - N, ,L %o] ' OÑ0o% úž± ' » 2(4 , a d Y ±± L • Ó @ÐÄ

. 0 A 3 0 \ L • T Z e * U ±± ^ u 3 0 " üE ^ u (E? È & Ç & ? ü 0v G.ú ò â 8±±, a 3 01", "=Ø- " Á * U » 1.ú , a • › ±±' N % Y 7 . 0 A 3 0 g , "A! ; - , V * U, a d Y E =y L • Ó @ÐÄ%. 0 A 3 0 ±± L • Ó * • g^{oo0}

3ü • Ä R %o = -(t/n)^m %ö0 ç ç ß / R %o = m ç - m çl %o0

œœt @EÖð Ž37 Ä] ±±N_{1U} 3ñ6 ¼, a d Y g t_ß j t₀ j - j t_{N_{1U}} "F U t_i %o = ß" 0" - "N_{1U} o # h "

& Á±± L • Ó] @Îi =•.g g R %p o = %ß_{1U} - i o N_{1U} %3 , a d Y ÷ & Á±± L • Ó] @Îi ‡ - 8 •

$$\begin{cases} x_i = \xi_i \\ y_i = \xi_i \frac{\beta}{R \%p o} \end{cases} \%o0$$

œœ- É %ß_j "y_i o U › EG} 4 D_i 7 ü %æ 3i ; \ - Ž, ! 3i "FA! ; d Y : û . 0 A 3 0 %

EÖð@T i &c] @ÎC52- <1 ...] @Î Ä ä • η ; m ±±] @Îi "° EÖð ý •] • k • ö K] ç • ü ý K o í O' Q Ú \ S Ò A , a d Y : û A 3 0 ±± t @ø%

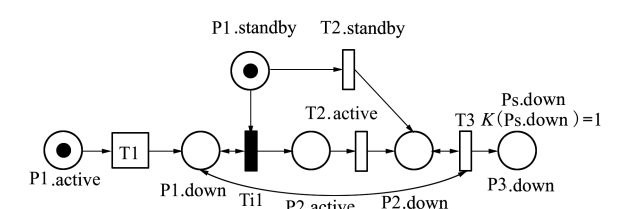
¼ E , 3 ½

¼± 2(4 üE

Y 7 ý N g Ñ "n * b # ½ 2(4 g , 4 ' 3 Á * U È , %A Ñ "n * b # ½ 2(4 ^ h * b # ½ 2 D² Ö * b # ½ 2 ; Á R * b # ½ 0 v F 3 3ñ = %

h * b # ½ 2 ^ 0 W p Ö g 3 X O Ž Ö ±± 0 W K ó = O Ž Ö p * b g %æ w k d U v › ç ü k ç d U v ç " ç Ö H o " U N = y Z g m 6 * U * b @æ ý È * b È %0 W ç Ö H % H 6 ¶ ß 1 H 6 ¶ 0 d F * • e # " Q 5 2 ž 9 È * b " r K É ' , % 9 % € £ Z - W ^ u # " - W (7 g N g È * b " s £ r K É ' È Í %0 W ç Ö H g D² 8 a ž ò 2(% h * b # ½ 2 ^ u # " D² Ö Ö È = ò 4) % u 4 = U f ç • ç ü ç v ö ê œ Ž Ö D² Ö p * b g % ð ê H 6 ¶ o %o " ° (< - W ç Ö H % H 6 ¶ ß C H 6 ¶ 0 o %o + A D² Ö p * b g U Ö 4 ' ä . # r K É ' { » % ä . ±± r K É ' " ; h * b # ½ 2 • = # V Ö 4 4 ± % € h * b # ½ 2¹ D² Ö * b # ½ 2 • F ^ u # " - * U Á R * b # ½ 2 E G e @ Ñ Á R * b # ½ 2 U Ö 4 ' ä . 8 : G p * L r K É ' ; h * b # ½ 2 D² Ö * b # ½ 2 • = ä Ö 4 4 ± % ¼ ± 4 É ÷ 3 ½

i W Ñ "n * b # ½ 2(4 ±± L • T N , - + @m.g " £ Z ß g =•.g h * b # ½ 2) 2(4 ±± , • Dî % £ & Á±±} 4 ~ - + " m.g %



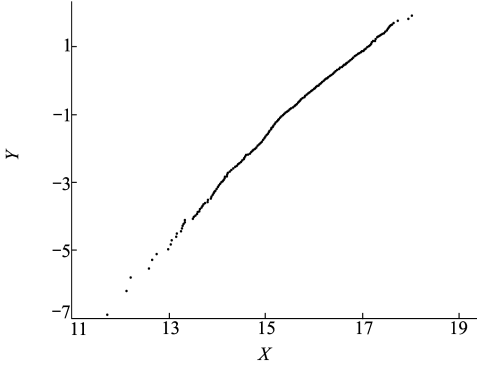
+ @œÑ "n * b # ½ 2(4 4 ±±± L • T N ,

$\tilde{N}^n * b \# \frac{1}{2} (4 \ 1 \ W, \ p \pm r \ K \acute{E} \prime > \hat{i} = \bullet \ \beta \% = \bullet \ \beta$
 $Z \ " \lambda_M \ g \ h \ * \ b \ # \ \frac{1}{2} \} \ 2(4 \ Z \ 0 \ W \ \zeta \ \tilde{O} \ H \ F \ * \ \bullet \ e \ \ \% \ \# \ + \ \pm$
 $r \ K \acute{E} \prime \ \% \ \in \ \varepsilon \ Z - \ W \ \zeta \ \tilde{O} \ H \ ^ \ u \ \# \ " - \ W \ \zeta \ \tilde{O} \ H \ (\ 7$
 $g \ N \ g \ \acute{E} \ * \ b \ " \ s \ \varepsilon \ r \ K \acute{E} \prime \ \acute{E} \ \acute{I} \ " \ ' \ \# \ + \ \pm \ r \ K \acute{E} \prime \ g$
 $\lambda_M^+ \ \% \ \lambda_A \ g \ \ddot{o} \ \acute{e} \ H \ 6 \ \uparrow \ \% \ \ddot{o} \ \acute{a} . \ 8 \ + \ \pm \ r \ K \acute{E} \prime \ " \ \lambda_A^- \ g$
 $\ddot{o} \ \acute{e} \ H \ 6 \ \uparrow \ U \ \tilde{O} \ 4 \ \acute{a} . \ 8 \ + \ \pm \ r \ K \acute{E} \prime \ \% \ \lambda_B \ g \ \acute{A} \ R \ * \ b \ # \ \frac{1}{2}$
 $\pm \ r \ K \acute{E} \prime \ \%$

$= \bullet \ \acute{O} \ \tilde{N}^n * b \ # \ \frac{1}{2} (4 \ 1, \ p \ r \ K \acute{E} \prime \ J^{f \ \acute{O}}$

$h * b \# \frac{1}{2}$	$\ddot{o} \ \acute{e}$	$\acute{A} \ R \ * \ b \ # \ \frac{1}{2}$
$\lambda_M = \beta \times \beta^-$	$\lambda_A = 0 \times \beta^-$	$\lambda_B = \beta \times \beta^{- \ \circ}$
$\lambda_M^+ = \beta \ " \times \beta^-$	$\lambda_A^- = ! \ \times \beta^-$	

$N_{J \ U \ \acute{a}} = \beta \ ! \ ! \ " \ \acute{E} \ \tilde{O} \ \tilde{O} \ \acute{A} \ \acute{Z} \ 4, \ , \ , \ L \ \acute{A} \] \ A$
 $* \ b \ # \ \frac{1}{2} (4 \ \pm \ \beta \ ! \ ! \ W, \ \acute{a} \ d \ Y \ \% \ \wedge \ \% \ \circ \ < \ E = y \ \bullet$
 $; \ " \ U \ \rangle \ E \ G \} \ 4 \ 2(\ \ddot{u} \ \% \ \acute{a} \ 3 \ \hat{i} \ " \ - \ + \ m.g \ " \ , \ 8 \ '$
 $x_i ; \ y_i \ D \ p \ i \ \$ \ B \ \acute{a} \ \hat{i} \ T \ 2(\ " \ ' \ J \ ' \ - \ \zeta \ 2(4 \ ,$
 $\acute{a} \ d \ Y : \ \hat{u} . \ 0 \ A \ 3 \ 0 \ \%$



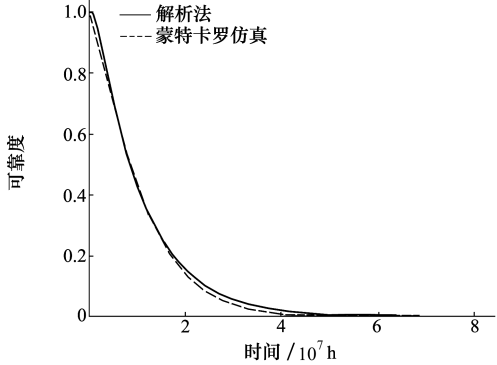
+ œ, a d Y ÷ & Á L·Ó] @î • ; ±±ì T 5

$\acute{a} \ \acute{e} \ F \ \acute{O} \ * \ U \ @ \ T \ i \ \& \] \ @ \ \acute{I} \ 5 \ Q \ \acute{i} \ \bullet . \ 0 \ A \ 3 \ 0$
 $= \bullet \ D \ \acute{e} \ < \ " \ \acute{A} \ \bullet \ \acute{a} \ \acute{i} \ \bullet \ m = \beta \ \text{O} \ \beta \ \beta \ " \ g \ \acute{O} \ \acute{i} \ \bullet \ \eta =$
 $\beta \ \beta \ \times \ 0 \ \times \ \beta \ ! \ \% \ \acute{E} \ \tilde{O} \ \hat{O} \ \acute{y} \ K \ \acute{i} \ \text{O} \ " \ \acute{O} \ , \ \acute{a} \ d \ Y \ \text{O} \ S \ 5$
 $. \ 0 \ A \ 3 \ 0 \ \%$

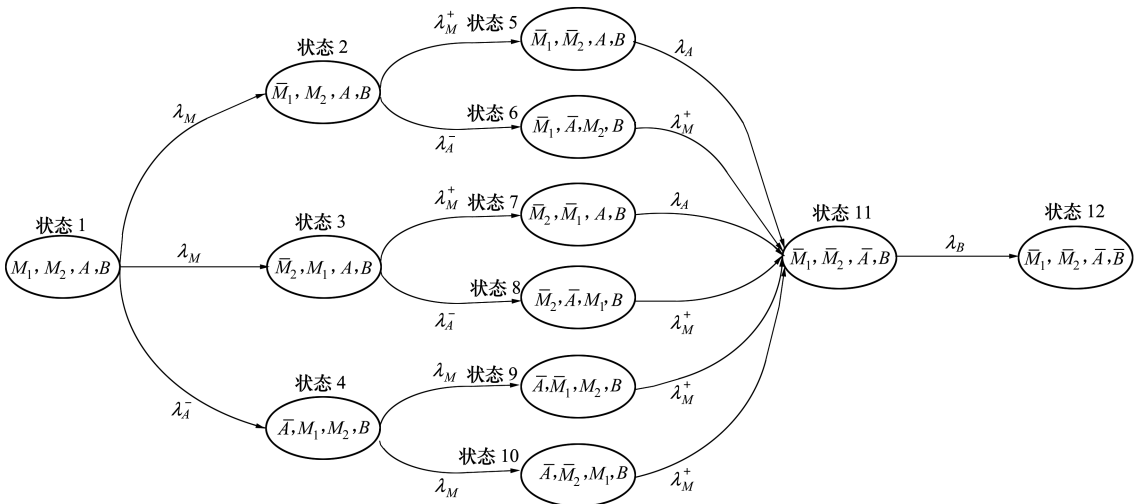
' "A $\tilde{N}^n * b \ # \ \frac{1}{2} (4 \ \pm \ L \ \acute{O} \ * \ \bullet \ \pm \ \pm = \bullet \ D \ \acute{e} \ <$
 $< \ g$

$R \ \% \ \circ = - \left(\frac{t}{\beta \ \beta \ \times \ \alpha \ \beta \ \circ} \right)^{\beta \ \text{O} \ \beta \ \beta} \ \% \ \beta \ ! \ \circ$

$\acute{a} \ \acute{e} \ \% \ \beta \ ! \ \circ < 4 \ ' \ \pm \ L \ \acute{O} \ 3 \ \hat{i} > \hat{i} + \ Z ; \ \ddot{z} \ \hat{i} \ \% \ Y$
 $\acute{E} \ , \ Z, \ p, \ \acute{a} : \ \hat{u} \ 4 \ \bullet \ 3 \ 0 \ " \ A \ m \ 6 \ r \ K \acute{E} \prime \ t \ g$
 $e \ \bullet \ " \ ' \ " \ 9 \ V \ * \ U \ \text{O} \ \text{T} \ \text{A} \ X \ D \ \acute{O} \ 8 \ ! \ \text{o} \ ? \ \% \ A \ \tilde{N}^n$
 $* \ b \ # \ \frac{1}{2} (4 \ \pm \ \text{O} \ \text{T} \ \text{A} \ X \ \acute{a} . \ D \ \text{T} \ \text{A} \ + \ - \ + \ \beta \ ! \ m.g \ " \ + \ Z$
 $M_B \ " \ M_0 \ 3 \ X = \bullet . g \ h \ * \ b \ # \ \frac{1}{2} \ \pm \ 0 \ W \ \zeta \ \tilde{O} \ H \ \bullet \ e \ " \ A = \bullet . g \ \ddot{o} \ \acute{e}$
 $H \ 6 \ \uparrow \ \bullet \ e \ " \ B = \bullet . g \ \acute{A} \ R \ * \ b \ # \ \frac{1}{2} \ e \ \% \ \lambda_B \ " \ \lambda_A \ " \ \acute{A} \ \acute{A} \ 3 \ X$
 $= \bullet . g, \ \% \ \acute{A} \ F \ \# \ \wedge \ u \ \% \ f \ \rangle \ \acute{a} . \ D \ \text{T} \ \text{A} \ + \ D \ ' \ \pm \ \hat{U} \ 3 \ \acute{a}$
 $/ 8 > \hat{i} \ \% \ \beta \ \beta \ \circ < \ " \ L \ \acute{O} \ * \ \bullet \ \pm \ ? \ \frac{1}{2} = \bullet \ D \ \acute{e} \ < \ = \bullet . g \ g$
 $R \ \% \ \circ = \beta - P_{\beta \ \text{O}} \ \% \ \circ \ \% \ \wedge \ \text{O} \ \text{T} \ \text{A} \ X \ D \ \acute{O} \ 8 \ ? \ \frac{1}{2} \ " \ \text{lo} \ \acute{A} \ \pm \ \pm$
 $L \ \bullet \ T \ 3 \ \hat{i} > \hat{i} + \ Z \ \acute{E} \ 3 \ \hat{i} \ \% \ \wedge \ + \ - \ " \ Y \ ' \ \acute{a} \ " \ \text{lo}$
 $\acute{A} \ 4 \ \acute{E} ; \ \text{O} \ \text{T} \ \text{A} \ X \ D \ \acute{O} \ 8 \ \acute{a} \ " \ \text{lo} \ \acute{A} \ 4 \ \acute{E} \ L \ \acute{e} \ \acute{O} \ D \ p \ \%$

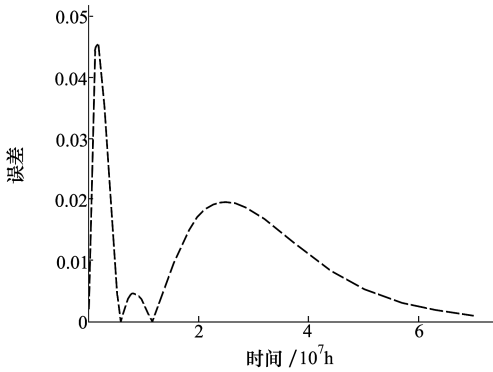


+ œ: 9 æ" Ä] ±±Ñ"n * b # ½(4 ±± L·Ó 3ì



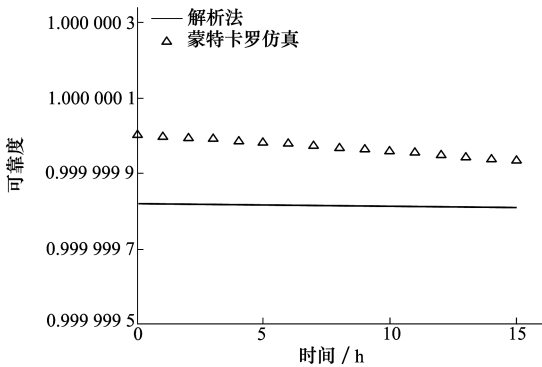
+ β! œÑ"n * b # ½(4 ±±O T A X'ã . D T A +

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 Ó 3i xK!±±A "A - T i g !Žx" %



+ ßœ? ½" 3i; 9Æ Ž4,, • i , ,L 3i xK!±±A

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 ß" d"UA #K!² "k^? ½" Ä] ±± L• Ó 3i 1 *^
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 - + ß0m.g "A #K! â² L• Ó t T » Ž . %



+ ßœ t 7Wâ #K!² Ñ"n*b#½2(4 ±± L• Ó 3i

U t 7Wâ #K!² " ? ½" !o Ä L• Ó 3i ;
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 TA g ßœ ß! ß!q@"- <A g ßœ ß! ß!q@%

$$\frac{\partial P_{\beta} / \partial \alpha}{\partial t} = - \alpha_M + \lambda_M + \lambda_A^- \alpha P_{\beta}$$

$$\frac{\partial P_0 / \partial \alpha}{\partial t} = \lambda_M P_{\beta} - \alpha_M^+ + \lambda_A^- \alpha P_0$$

$$\frac{\partial P / \partial \alpha}{\partial t} = \lambda_M P_{\beta} - \alpha_M^+ + \lambda_A^- \alpha P$$

$$\frac{\partial P_x / \partial \alpha}{\partial t} = \lambda_A^- P_{\beta} - \alpha_M + \lambda_M \alpha P_x$$

$$\frac{\partial P_{\cdot} / \partial \alpha}{\partial t} = \lambda_M^+ P_0 - \lambda_A P_{\cdot}$$

$$\frac{\partial P / \partial \alpha}{\partial t} = \lambda_A^- P_0 - \lambda_M^+ P$$

$$\frac{\partial P_{\circ} / \partial \alpha}{\partial t} = \lambda_M^+ P - \lambda_A P_{\circ}$$

$$\frac{\partial P / \partial \alpha}{\partial t} = \lambda_A^- P - \lambda_M^+ P$$

$$\frac{\partial P / \partial \alpha}{\partial t} = \lambda_M P_x - \lambda_M^+ P$$

$$\frac{\partial P_{\beta} / \partial \alpha}{\partial t} = \lambda_M P_x - \lambda_M^+ P_{\beta}$$

$$\frac{\partial P_{\beta} / \partial \alpha}{\partial t} = \lambda_A P_{\cdot} + \lambda_M^+ P_{\beta} +$$

$$\alpha \lambda_{\beta} P_{\circ} + \lambda_M^+ P_{\beta} +$$

$$\alpha \lambda_M^+ P_{\beta} + \lambda_M^+ P_{\beta} - \lambda_B P_{\beta}$$

$P_{\beta} = P_i = !\alpha = 0$ " - " ß0o %ßß0

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 .ú4 ± & Ñ"n*b#½2(4 E=y L• T ' N"x : ³
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 ±±# ¼! T±±4g%æ%9 # "Y, Z 1F # ±±, a t
 : û 4 • 3 0 " EœœT^A XDð8 E=y' N!o
 ? +s \ "€...U, a : : û 4 • 3 0 ±±F # # "O™
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 Kα"U - F #, a 3 0 ±±z ý 8 " EœœL = :
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 > 7 3üO¹FúÝ ± ' O™A X N, " & @ @ Îç ...6
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 o & » Ý2(4 "V*UO™A X N , E =y L•T
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 .ú Ö. N , E =y3ñ5 Fú± "E-z ³ 3n) =+±' NDô8 %
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ï 50´ ([Å

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ß Òiç¶H@Âý" •ö.ê @ŽŒ q ÷ ß=vy ö ÷ Uf = •! i U vy çwüU • UK ÷ if w] &f ÷k ê v=¶ w .ÖŽç66 ð ÷ • ÷
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 Oß Ö Â @ý ö ê ; Ž ÷ U ÷ ê v=¶ w XÖŽ > ç=" H ð U f â i ç ç k ç" O! ß
 00 Ò ý ö ê • ý " ê 6 @ XŽ • ß=vy 6 ÷ k ç ç k XÖŽ ¶ . ç f" i ö ä • d ÷ ü = f² i • ÷ " ç ÷" O! ß x

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Û çY9Þã d ç ß=vy •! w U ç ç f w] dU U ÷ ÷ ÷ U ÷ wü U ÷ wü d] • ç
 U ç ç f w] dU U d k d > k ç •! U ÷ w] U ÷ ç U ÷ ÷ w k d U ÷ ç" d=U U w • ÷ ÷ ÷ ÷ ÷ f ÷ U ÷ ÷ U ÷ ç ÷ d U ÷ w k
 = wü Ž ¶ U f" f w] ! U ÷ ç = ÷ • w ÷ f > q ÷ ÷ w • ÷ w ÷ ÷] & ç U ÷ ç •! ü ÷ w ÷ ! U ÷ ç & ü w • ç U w > w w ÷ ç
 @ ÷ ÷ Ž ö > f ÷ U ÷ ÷ ç ß=vy] w ÷ •! ç •) ÷ k U ç ç f w] = ç ç ç > & U > • ÷ w ÷ w ÷ d U wü ê v=ç w Ž
 i w ÷ d U wü ê v=ç w U ÷ U b q => ÷ ç ß=vy] •) ÷ k ! • ç v=¶ ç U ÷ f ÷ U ÷ ÷ wü ÷ ç ÷ ÷ ÷ ÷ k U ÷ v ÷ & f" ÷ >
 v ÷ & f U ÷ • U d U ÷ k" d=U U ÷ ÷ f ü > ÷ U ç ç f w] Ž ç w ÷ U f" w ÷ > f ÷ U ÷ ÷ % w K q ÷ ÷ w
 ! U ÷ ç & d U ÷ ç •! w U ç ç f w] ÷ U ÷ & ç ç ç ÷ w Ž ç w ð •! w ÷ w ÷ d U wü ê v=ç w & U > ç ß=vy
] •) " U ç ß=vy U ÷ U f =] w ÷ & U > • ÷ X • ÷ w U ÷ • ÷ ü U ÷ ç = ç ç ç > & f k ÷ d U ÷ k f w] ÷ U q
 ! • ç f w] ç ß=vy q U ÷ w ç ÷ U ÷ U ÷ U ÷ ç Ž è ç U f" U ÷ ÷ w ÷ U ç ç f w] = ü > U U ÷ U w = ü w ÷ w ÷ U ÷ k
 q ÷ U ÷ ç U ÷ ÷ ÷ ÷ ÷ •! w ÷ q ç ÷ w U ç ç U ÷ d Ž d ç ü w d • w ÷ U w ÷ ÷ ÷ ç ÷ ÷ & f ü ÷ k w ÷ ç ç ÷ w ÷ k
 •) U ÷ w ÷ U ÷ U f wü U] w ÷ = & • O! ß! " d=U U ÷ & ÷ k ÷ w ÷ ÷ ç q d U wü Ž

Þ ä e s—çã U ç ç f w] + > f ÷ U ÷ ÷ ç ß=vy] •) ÷ k + w ÷ d U wü ê v=ç w + X • ÷ w U ÷ • ÷ ü U ÷ ç +
 f w] U vy