

JYSçãÑÑ s ys-vÑD yó ÓÑÑ SéÑÑ Óyüü Óä

S 6 - • * #pK-+±• " N , 3 ½

Ku w=®JD¶WF g

%-D GT " 7 Ö C " K " K, >->-¶ œ®!®o

...œ®ÅWŞ 7W"ß , 2(4 Z#pK-+±K-7ÜK- , K!KÆZ+±Ô , È 3 0 : t # wG' (Ý"ß , Ž2T(ÝAŽw
EM="ß , 2(4 r KÉ K-7Ü7+±t , * 6 u] ü ^K!KÆZ 3 0 : t +±Ô , È wK_ ' (Ý"ß , Ž2T
' » 3 } 42(8+±3â4! qÜ ...x Ü o¶K dæ/8 w /ø ³ S 6- • * +±K-7ÜK- , K!KÆÖ , È 3 0 +±•
" N , g ³ O!@î• " N , +±ó- T wEÖô• i N E =y&! w£ • ³ A • " N ,

œ¶[œ@Ü#pK- t , * "ß , Ž2T 3â4! qÜ ...x Ü æ/8 Ô , È
Z + 31" \$ Å @ß ®Ž 0"ß œœœœ' ([4 - . Äö œœœœ' 0 4C\$ Åß!!!K® %!ß o! K"ß K

œœ#pK- £"ß"n • > %U59=Ø- " Á*U » 7WŞ &
7W ÷ 7WɁ Z+±ß , 2(4 Z "£"! T,! Ö ž ú %oÖ
• +±Ö . " T %U#pK-*L ÖDð8 Z **^ » 1ë Ö ÷ =ð
Fz+±l "G' (ÝK- , ; K-7Ü: 9D;K MÅ'û 59EM=
K-7Ü 5Ö; K- , K!+±Ô , È 3 0 : t "RFú# G'
(Ý"ß , Ž2T(ÝAŽ ³%EGe UK-7Ü7 - t , * ' ü
< Ô , È "59E- z "ß , Ž2T ³K°%

K-7ÜK- , K!KÆ+±Ô , È 3 0 h>® "n g 3 0 ž
ú "K-7Ü7+±t , * EÖðf K!KÆ ±59f "n g
3 0 " Kz{ 3 0 : t +±Ô , È %^ » S 6 t , *
+±K!KÆn g : o " È +±* ² C " 52 3 K-7ÜK- , +±
K!KÆn Ö • " N , 0- C g - 4JKÆn Ö+± • " N
, "£ A W50;~ t , * & Ô , È 3 0 +±ž ú x°%,
z "K¼m@ÐÄ"n € È " %eÖœ+±p , ** ² C " 52 t
Fô"U èÖæ" E =y@ÐÄ3 ½t , * &K!KÆÖ , È
+±3 0 ž ú "ö"- :È3! È0v °V*U èÄ 6¶ 3 ½³
K!KÆZ+± , È 3 0 %Pü_0v °Fô"U èÖæ" 3 ½
³ <çø • t , * &K!KÆÖ , È+±ž ú % @çk0v °
V*U èÖæ" 3 ½³ - • * ; <çø * &K!KÆÖ ,
È 3 0 +±: 9 ž ú %_=_ 0v °V*U èÖ-A/£ ³ t
, * • 'ã &#pK-"nFü! T+±ž ú %g ³ ýP " =y•
+±ú3âÈ "• èüü• ö] =üüw0v ³V*U èÖæ" 3
½t , * &K-7Ü= ' - "nFü+±ž ú %¶Uf Uç öüçk
0v ³V*U èÖæ" 3 ½³ #pK-+±/ . "ß Ö È "£
Fô"U t , * ü < ³ / . "ß Ö È %&c59" èÖæ" 5D

#5DÈ " : 6* æi] 3 ½K-7Ü&- , K!KÆÖ , È+±3
0 "Q£ \ U t , * +±E C @®ÎZ "L->®E =y G N
@ÐÄ%

Y ' lµ &K-7Ü&- , K!KÆn Ö+±0- C • " N ,
+±: Bâ÷ èÖ@ÐÄ+±5DBf "' » 3 } 4 8+± ¶K
æ/8 "Ö] ³ S 6- • * +±K-7Ü&- , K!KÆ+± N
Ô , È 3 0 "£EÖô; èÖ• i N 4 É &! •
³ • " N , "g#pK-+±E C @®ÿ È ³)3@ç' , %

Öç K-7ÜN , 4 ±

#pK-*^K- , ¹ K-7Übñ = " + ß g S 6- • * +±
K-7ÜN , "ÈKr+±K-7Ü7 6 G W 5Ö"Y0 h>®A/£
K-7Ü 5Ö¹ K- , K!KÆ!+± , È 3 0 " ' 3 K-7Ü-
C g - W 5Ö¹0- C ; +±@ÐÄN , - + ß m.g %

+ ßœ#pK- N ,

+ βZ±r_{sl} gK-., ±±² ± "r_{sp} gK-7Ü±C ± %
 K-7Ü±Z ð g } 4 ì %æx gK-7Ü¹ K-., ±±Dj3i
 f >ÿ/d_B g- • * ¹ K-7Ü 5ÖDæ±C.è "l₀ g- •
 * ±±ê Ó"l g- • * K!±±C.è "h_z g- • * ±±
 # Ó%

#±K-7ÜK-., K!KÆ È 3 0 ±±• " N,

K-., ¹ K-7ÜF* g 3 € "r Fô*U3 } 42(3
 1/2 %t @ñ € : , 4V" F 3 } 42(8 ±±3â! q
 Ü ...x Ü æ8 g â

$$\begin{cases} \rho \left(\frac{Dv_r}{Dt} - \frac{v_\theta^0}{r} \right) = \rho f_r - \frac{N}{N} + \mu \left(\dot{a}^0 v_r - \frac{v_r}{r^0} - \frac{0}{r^0} \frac{N_\theta}{N} \right) \\ \rho \left(\frac{Dv_\theta}{Dt} + \frac{v_r v_\theta}{r} \right) = \rho f_\theta - \frac{\beta N}{r} + \mu \left(\dot{a}^0 v_r - \frac{v_\theta}{r^0} + \frac{0}{r^0} \frac{N_r}{N} \right) \\ \rho \frac{Dv_z}{Dt} = \rho f_z - \frac{N}{N} + \mu \dot{a}^0 v_z \end{cases}$$

%B0

< Z

$$\begin{cases} \frac{\ddot{O}}{\ddot{O}} = \frac{N}{N} + v_r \frac{N}{N} + \frac{v_\theta}{r} \frac{N}{N} + v_z \frac{N}{N} \\ \dot{a}^0 = \frac{N}{N^0} + \frac{\beta N}{r} \frac{N}{N} + \frac{\beta N}{r^0} \frac{N}{N^0} + \frac{N}{N^0} \end{cases}$$

ææËK#pK- Z±±K-7Ü\ DýÖ±±"K-., \ Lt• ±±"
 K-7Ü&K-., K! G 6 z D_i 7 ±±% & DýÖ " g ³ ì » @Î
 0Ä"E Füt @K-7Ü±• "K-., ELÓ u ì z D_i • > Dý
 Ö %*^ » K-7Ü&K-., ±±Dj3i f >ÿ α D < "K!KÆ ±±"
 ∈Dpi =y_z D_i ±±ELÓDýÖ " » \ 6

$$\begin{cases} (v_\theta = v_r) ! " v_z = v_z \%0\theta 0 \\ \frac{N}{N} = ! " \frac{N}{N} = ! " \frac{N}{N} = \frac{p}{z} \end{cases}$$

%B0

ææF %B0< g

$$\frac{v_z^0}{r^0} + \frac{\beta v_z}{r} = \frac{\beta}{\mu} \frac{p}{z}$$

%00

ææ 3 Ä v_z ±±EG g

$$v_z = \frac{r^0}{0} C_B \xi + C_0 + \frac{r^0}{\mu} \frac{p}{z}$$

$$\frac{r^0}{\mu} \frac{p}{z} \%0 \xi - \beta 0$$

%x0

< Z "μ g "n € ±±Ö ÈSüÓ "r g o g 3 ð ±±w ± "

C_B "C₀ g e •

Dæy Ž # - g â€ r = r_{sl} # "

v_z = u

%00

ææDæy Ž # ¹ g â€ r = r_z # "

v_z = !

%00

ææDæy Ž # ¹ Z ±±r_z g 3 ð o] K-7ÜDæy ±±C
 .è "£ T < ; 3 ð C oo_{sp} ¹ >ÿ Ó θ 6 "r_z ±±o L-
 >®L Ö#pK-±±3â > f L • % #pK-±±- W3â > f L • "
 - + 0 m.g "k^ » α D < "K-7Ü±±f L • Dpi g 3 • %
 K-7Üf L • ±±3 ð g o_{sp} "w ± g r' _{sp} = r_{sp} ù • α % @æÇ -
 ø D "ÿ Ó θ "F U 6 >ÿ • oo_{sp} A Z "r_z = oA "r' _{sp} = o_{sp} A "
 f > 6 >ÿ • † S Ç) 3 ¹ - • * ±±# Ó h_z Ä]

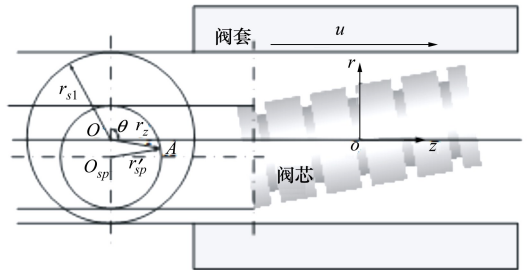
r_z = r' _{sp} - oo_{sp} ù • θ - h_z

%B0

ææeg ³ ì » @DÄ" 3 ξ 3ì T C g ξ = βr " £ 3
 %00 < &%00 < ' %x0 < Z " Ä] e • Mlg

$$C_B = \frac{u}{\beta \%0 - r_z 0} - \frac{\beta}{\mu} \frac{p}{z} \%0 + r_z 0$$

$$C_0 = \frac{ur_z}{r_{sl} - r_z} - \frac{\beta}{\mu} \frac{p}{z} r_{sl} r_z$$

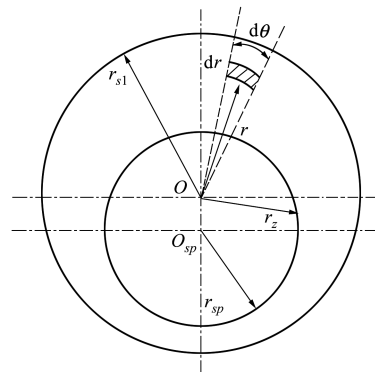


+ 0æ#pK- f L • +

3 C_B "C₀ ' %x0 < Z " Ä] v_z g

$$v_z = \frac{u \%0 - r_z 0}{r_{sl} - r_z} + \frac{\beta}{\mu} \frac{p}{z} \%0 - r \%0 + r_z 0 - r_{sl} r_z 0$$

%00



+ æ'nFü Û p L • /

*^ %oo< - "v_z Z WX β" F z E ±3i T C 1
)3 : G ž ú @ ðÄ É %

#pK- f L • Z "K-7Üf L • 1 K- „ 2 (Ü f L • K! ±± Ü
<(Ü • Kaž F 3 ±± • / - + " £ L • / T < g)S =

r θ r " F " n D ô Ü <(Ü • Kaž W L • ±± " n F ü Q g
)Q = v_z)S = v_z r)θ r %oo
K-7Ü&K- „ ±± K! K A B O! g r_z r_sl " ! 0 " & %oo <
!o ù F ú 3 g

Q = ÜÜ | r_z v_z r θ %! o

*^ + O&+ - oo_sp = | z | W L α " F %oo < g
r_z = r'_sp - | z | W L α ù θ - h_z %Bso

Q = 0 u ¼

æ [Q_sl^0 - r_sl %'sp - h_z o - %'sp - h_z o^0 + β z^0 W L α^0] -

æ β Q_l [r_sl^x - Q_sl %'sp - h_z o - Q_sl %'sp - h_z o -

æ %'sp - h_z o^x - r_sl %'sp - h_z α^0 W L α^0 -

æ %'sp - h_z o^0 z^0 W L α^0 - z^x W L α^x] %Bso

*^ %Bso < Ä] , g li z Di ±± C (' g
)P = - Q_u u %oo^0 + φ o W L α^0 %oo^x + β z^0 - γ o

æ Q_u Q β W L α^x %oo^x + β z^0 - γ o %B o

< Z
β = (r_sl %'sp - h_z o + %'sp - h_z o^0) ÷ W L α^0

γ = (r_sl^x - Q_sl %'sp - h_z o - Q_sl %'sp - h_z o - %'sp - h_z o^x) ÷ W L α^x

& %B o < ! o / 3 g
P = - Q_u u f_B %oo + Q_u Q f_o %oo + C %B x o

< Z
f_B %oo = (β ÷ 0 + β - Q_φ ÷ (0 β^0 + x)) ÷ (β + √β^0 + x) σ^0 ¼

æ U u W L (z ÷ (β + √β^0 + x) σ^0) +

æ (β ÷ 0 - β - Q_φ ÷ (0 β^0 + x)) ÷ (β + √β^0 + x) ÷ β ÷ β i ¼

æ (z + √β^0 + x - β) ÷ (z - √β^0 + x - β)

f_o %oo = β ÷ (β + √β^0 + x) U u W L ¼

æ (z ÷ (β + √β^0 + x)) - β ÷ (β + √β^0 + x) ÷ β i ¼

æ (z + √β^0 + x - β) ÷ (z - √β^0 + x - β) ÷ β

f > D e y ž # z = l " P = P_o " z = - l " P = P_B " μ P =
P_B - P_o " n ∈ E 4 T - C ; Q g

Q = Q_l (f_B %oo l o - f_B %oo) ÷ (f_o %oo l o - f_o %oo) +
æ μ P W L α^x β ÷ (Q_u f_o %oo l o - f_o %oo) %B " o

C = P_o + Q_u u f_B %oo ÷ W L α^x - Q_u Q f_o %oo ÷ W L α^x

ææ3 %B o < '] %B x o < Z " Ä] K-7Ü&K- „ K!
K A E ± , g K ¼ D i 3 0 g

P = P_o - Q_u u f_B %oo ÷ W L α^x + Q_u Q f_o %oo ÷ W L α^x

æ Q_u u f_B %oo - Q_u Q f_o %oo ÷ W L α^x %B o

7 < f_B %oo & %oo Z h_z ±± i ; z D i } 4 & • * ±±
ï • 6 % € - • * ±± * • g £ • # " n = 0 " x "

" " B! " - " m = B " 0 " - " n / 0 " h_z ±± i g â
h_z = x h_z | z â ± ù α l / 0 + %oo - B d +

æ %oo - B d_o " l / 0 + %oo - B d + m l_o ÷ W L α %B o

ææ€ - • * ±± * • g t • # " n = B " " " " " " "
- " m = B " 0 " - " %oo + B o ' 0 " h_z ±± i g â

h_z = { h_z | z â ± ù α g %oo d / 0 + %oo - B d + }
æ %oo - O d_o " l / 0 +
æ %oo - B d + %oo - B d_o ÷ β

< Z " g %oo = { B' m > β %oo
! " m j β

- • * ±± * • g " n = " k , O 1 @ # p K - K !
K A Z , È 3 0 ±± • " N , " N , i • - • B m g %

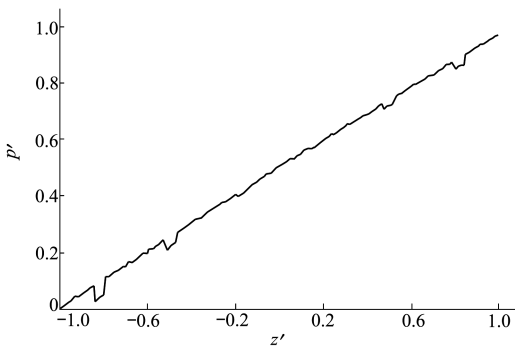
& , È ÷ z D i F * %oo N 1) 3 "
P' = P ÷ P_o %B o

$$z' = \frac{z}{l} \quad \%0! o$$

=• Ô† #pK-- • * • " N, i •

l_{qj}	$l_{\beta qj}$	$l_{0 qj}$	l_{qj}	$h_{z qj}$	$r_{sl qj}$
Ř	Řž	!ž	0ž	!ž"	
$r_{sp qj}$	α_{β}	P_{β}	$\alpha X \hat{e} U P_0$	$\alpha X \hat{e} U$	$\mu \hat{e} U$
"ž 0	!ž	!	ž	!ž 0x β	žs"

U XUM&Z & , È 3 0 ±±• " N, E =y4C8
 ,L "Ä] K!KÆ± N, ÈK1/2 Di 3 0 ±± 3i -
 + xmg %



+ xœ#pK-K!KÆ N, È 3 0

ú†K-7ÜK- „ K!KÆ È 3 0 ±±• i N

, È 3 0 ±±• i N \ &"n € ÔÈ " ±±Ôc æ
 /8E =y.è • C "E 59!o Ä"n g ² 1.è • %æ È! T
 ±±• i ? %• i N Z*U] ±±"n € ÔÈ " Ôc æ/8
 g Æ 4 T æ/8 &ÖFüæ/8 %

zE ±±, È 3 0 • " N, Z t @ñ € g : ,

4V&6 Sü& FúÈ "U • i N Z œ%9%9 ±±t @ë F
 E 4 T æ/8 &ÖFüæ/8 g

$$\frac{\beta N_{v_r} o}{r} + \frac{\beta N_{v_\theta} o}{r} + \frac{N_{v_z} o}{N} = ! \quad \%0\beta o$$

$$\rho \left(v_r \frac{N_r}{N} + \frac{\beta}{r} v_\theta \frac{N_r}{N} + v_z \frac{N_r}{N} - \frac{v_\theta^0}{r} \right) = - \frac{N^p}{N} +$$

$$\alpha \mu \left[\frac{\beta}{r} \frac{N}{N} \left(r \frac{N_r}{N} \right) + \frac{\beta}{r^0} \frac{N_{v_r}}{N^0} + \frac{N_{v_r}}{N^0} - \frac{v_r}{r^0} - \frac{0}{r^0} \frac{N_\theta}{N} \right]$$

%00o

$$\rho \left(v_r \frac{N_\theta}{N} + \frac{\beta}{r} v_\theta \frac{N_\theta}{N} + v_z \frac{N_\theta}{N} + \frac{v_r v_\theta}{r} \right) = - \frac{\beta N^p}{r} +$$

$$\alpha \mu \left[\frac{\beta}{r} \frac{N}{N} \left(r \frac{N_\theta}{N} \right) + \frac{\beta}{r^0} \frac{N_{v_\theta}}{N^0} + \frac{N_{v_\theta}}{N^0} - \frac{v_\theta}{r^0} + \frac{0}{r^0} \frac{N_r}{N} \right]$$

%0 o

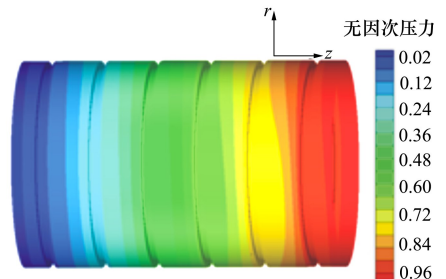
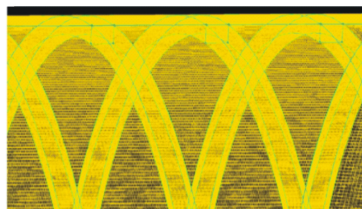
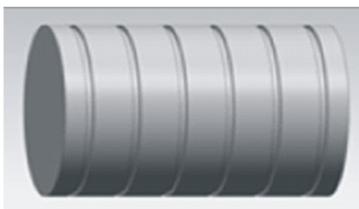
$$\rho \left(v_r \frac{N_z}{N} + \frac{\beta}{r} v_\theta \frac{N_z}{N} + v_z \frac{N_z}{N} \right) = - \frac{N^p}{N} +$$

$$\alpha \mu \left[\frac{\beta}{r} \frac{N}{N} \left(r \frac{N_z}{N} \right) + \frac{\beta}{r^0} \frac{N_{v_z}}{N^0} + \frac{N_{v_z}}{N^0} \right] \quad \%0x o$$

œœEÖâè • C æ" !o ? æ/8 %00o 2 %0x o% & »
 "n € "n ÖK MÄ" - =y x 6 u ±±!o ? æ" \ 6 K) €
 / " %

U ö ø Z ' /ø K-7Ü ±±6! • i N, - + "
 mg "K-7Ü7 ±± • * i • ; zE ±±• " N, 4 ±
 i • - 7! %U HJ &wZ &K-7Ü6! N, E =y4~i
 ? 3 "Fô*U Dæ 4~i " £ mF 4~i ? 3 - +
 mg %

K-, î L•@4) gELÓg u ±±(Ô î L•"K-7Üî
 L•@4) gL†. #p("Q0 , È T < ; =• βZ - 7! "
 @ëÇ c ^ 1è Ög ß! \$ Bâ@ÛÁtè Ó %*^ »>®! •
 " N, %o&! "U • i ? Z œE =y,%9 ±± N 1
)3 ", ,L4 È - + ®mg %



œœœœœœ+ "œK-7Ü6! • i N, œœœœœœ+ œK-7Ü ±±4~i ? 3

+ @œK!KÆ È 3 0 ±±• i N

¼# #pK-K!KÆ È 3 0? ½? N, •

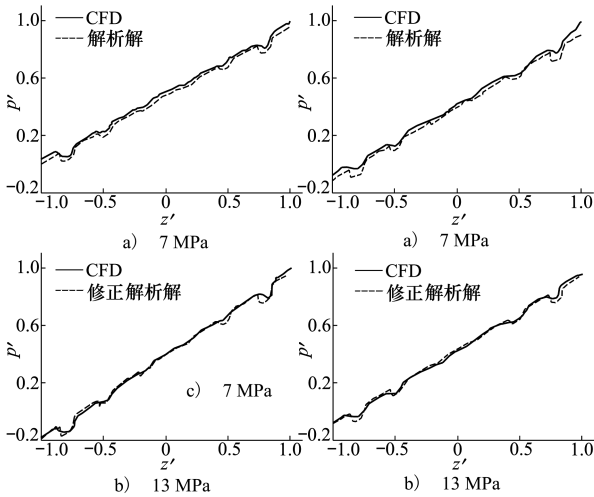
æœ • ; +± " N, ; • i N +±4 É &! - + m.g ", ,L4 É k.g • ; +±? ½? N, 6* LD^a] N #pK-K!KÆ± N, È 3 0 %

U : 9, Ž # 8 "#pK-K!KÆ N, È 3 0 +±? ½? ; èÖ Ä] +± • i ? &! 3i - + m .g " j 0l? ½? N, D° ÒDp» • i ? N, "s ú ...U - Ç+± / "Fö*U3ì T 5 æ<E =y? ½? N, • " • ; +±N, g

‡4 ‡@ç

#pK-ZK-7Ü7+±t , * ü <K-7ÜK-, K!KÆ 3 0 : t +±Ö, È "Y ' ' » 3 } 42(8 +±3à4! qÜ ...x Ü æ/8 " Ö) 3 S 6- • * +±K!KÆ N Ö, È 3 0 +± " N, "EÖ èÖ • i N %&! " • 3 A • " N, %, ,L4 É k.g â • ; +± " N, D° a] N #pK-K!KÆ± N Ö, È 3 0 "£ g t , * +±E C @ @Íy È)3 @ç È > "A7, 3 • i N +±@ÖÄÇ#½%

P'_{1,} = \beta ! "P' + ! ! \beta %\theta" o



+ æ? ½? ; • i ? æœ+ œ • ? ½? ; • i ? È 3 0 &! È 3 0 &!

ï 50´ ([Å

ßÖœ• I ", ...j Žß, MÖ; !A, MÖ XÖŽ 'u Ž' !v â{ Z.p - T " ' 'u.k " 0!!
_Lk i dü • jk" @ üz4=jkŽ @f dli ÷i Uj èz üj Uwi dLj] = z XÖŽ d=6> zŽü üdLj @üUd=jk] ÷i çyf • i ÷k
zù ² üdz • kf êç " 0!! %œ d= o
0Öœ@ä Žß, #pK-Ž2T(YÄŽ±) ÷ &0f .Öžc EM, } AE" 0!! %oâ ßÖKßÖ
î ü _ž d Uli Uwi • i @f dli ÷i Ä•ü .ÖžXUüi Uwiç Uj XUwçU" 0!! %oâ ßÖKßÖ %œ d= o
Öœ4,,3ú Ú "!"- Ý Žß, #pK-Ž2T(YÄŽ±)3 @ç ½? à æu .Öžg *b /8 - \ " 0!! %oâ K"
Äü • i dL ÷Lk" ü Lk .L4=Ž d • ç wüU özUf = Uj i • üwz • i @f dli ÷i Ä•ü .ÖžX ² 6 6jk= çk üdz • kf" 0!!
%oâ K" %œ d= o
xÖœ, • Ä ŽN g"ß, MÖ; Öc XÖŽD Ü ä* K_ G' 'u.k "ß@
ü Lk ; dLj =žö=çUj è f dli ÷i dLj] = z Uj • çw XÖŽ> =çk" ¶UwçU Ö! ; çz üj wj êç "ß@ %œ d= o
"Öœ; d•ü." èLj @ i dL Ž64q çz çw i wj f • z w @f ç f z j ÷i ÄüçUwçz dLwçwü • i XUj k w i ü = z U i çwU Hç•ü
X üdL=U i U .Öž çœ çw 0!ß " "%oâ ß ÖK!
ÖœÈ3! È "@æ I " ž | ŽTEg±#pK-4JKÆn g 3 ½÷A O¹A/E .Öž7f7c /8 "0!ßß" %oâ " K@
î ü @çk½z" î ü î ÷i • jk" ü =X=žö zUf = Uj 64q çz çw i wj f • z è • è = > z HUj • z ÄÜk ÖLj wç i = ÄÜü
.Öž i d=çqçk 6jk= çk" 0!ßß" %oâ " K@%œ d= o
ßÖœP÷i _" ý d= Uj =X Xžçzù wUwçz • i çœ • k=U > dLwç • i özçz Uj =çk w i çwU Hç•ü .Öž çœ • kf çwçUwçzU"

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