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• T6+)&1,!=61' A2!6. B!%UD623(0. !V(&AW!X: ; GYZ!"#$%&#!' &%$()!*+(, -. /0!>&. B&. R!" &)(3+!
"1022[!!
  • ?)2&!KAD)(2#0B!(.!\10.'#R!12+)$, (3+-$2!&(4!5+(,./!/()!#.!6)&7&-#!8$2, -&#!X:; GPZ[!
      = &. 3106)R!" 102202!B0!)N- . (/012(3U!BA!MAUDO' [!
• T6+)&1,! =61' A2! X:; G]Z! 69.!: $#-+-3&#! 53$#$; <! $=! >#-?&+.! >9&2; .! @, &A+&+-$2B!
'-7.#-9$$, /0! @; )&)-&2! >9&2; .! &2,! +9.! >$2=#-3+/! $=! D.7.#$A?.2+[! >&. B&. R!
O613#2'6. ^V&A3)0B*0!"1022[!
• T6+)&1,!=61'A2!X:;; SZ!E)$?!:-2$39.+!+$!+9.![69-),!G&<\textbf{B}!1.$\pi-\%.)&\pi-\?!&2,!*$3-&\pi!
6)&2/=$)?&+-$2!-2!>9-#. [!!>&. B&. R!")A3&!"1022[!
&'()*\\"',*-.,/\%
• T6+)&1,!=61'A2!6. B!I&. 63#6. !V00/02!X: ; : G7!>#-?&+. J/?&)+!@; )-3(#+(). B!@!>)-+-3&#!
@2&#</-/[!>&. B&. R!O613#2'6. ^V&A3)0B*0!"1022[!!
0(1,)(%""#$ (sole editor)!
• T6+)&1,!=61' A2!X: ; G; Z!K. 2. L-2; !12+. )2&+-$2&#!' &%$()!*+(, -. /[!>&. B&. R!V&A3)0B*0!
"1022!XK6K01D6'8!/012(&.!KAD)(2#0B!:; G Z[!
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• !T6+)&1,! =61' A2! X: ; G]Z!

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'#61(3Uhb!XaEA2(. 022!6. B!`. 301. 63(&. 6)!?(BR!5#&!"1&4(32!41&@!C#61(3+hbZ,!KK[!G<GJG<<!
(.!E01316. B!E6B(0!6. B!$&@(.(kA0!c(B6)!X0B2Z,!'#Y+&+!, (!8$2,.!0PQQB!'&!=-2!, (!?$2,.!
(2-Z(...)=\&. 3106)R!OB(3(\&. 02!B0!E\&1U6),!: ; G; [!]
p aT#0! C&. 316B('3(&. 2! &4! d0&)(D016)(2@! (.! >63(.! ?@01('6R! \1&@! \%31A'3A16)!
?BiA23@0. 3! 3&! f0@K&701(. *! 3#0! "&&1\\dotb,! KK[!: GJ_S! (.! >6A16! = 6' $&. 6)B! 6. B! ?1. 0!
VA' 8013!X0B2Z,!: $/+JI . $#-%. )&#-/?!-2!+9. !@?. )-3&/B!V. <$2, !+9. !G&/9-2; +$2!>$2/. 2/(/[!
>&. B&. R!"6)*16/0,!: ; ; H[!
p aMAO! 10230J3J()! BO2! &Di0' 3(42! BA! @())U. 6(10hb! Xa 5\#63l2! > 043! &4! 3\#0! = ())O. (A@!
$0/0)&K@0. 3! L&6)2hbZ,! KK[!G]HJGS<! (. !E01316. B!E6B(0!6. B!$&@(. (kA0!c(B6)!X0B2Z,!
'HY+&+!, (!8$2, .!OPQPB!'.!")&2, !6$()2&2+[,!=&. 3106)R!OB(3(&. 02!B0!E&1U6),!: ; ; H[!
p !aT#0!`. 301. 63(&. 6)!\(. 6. '(6)!`. 23(3A3(&. 2b,!(.!"(0110!E06AB03,!I022('6!%'#6401!6. B!
"6A)!F62)6@!X0B2Z,!12+)$, (3+-$2!+$!12+.)2&+-$2&#!D.7.#$A?.2+B!@AA)$&39./C!@3+$)/!&2,!
1//(./,!KK[!G]: JGSP,!oW4&1BR!oW4&1B!-. (/012(3+!"1022,!:;; P[!!?)2&!KAD)(2#0B!(.!\10.'#!
62R! a>02! (. 23(3A3(&. 2!4(. 6. '(r102! (. 301. 63(&. 6)02b! (. !12+)$, (3+-$2!&(!D\7.#$AA.?.2+!
12+.)2&+-$2&#,! "(0110! E06AB03,! I022('6! %'#6401! 03! "6A)! F62)6@,! X0B2Z,! o33676R!
-. (/012(3+!&4!o33676!"1022,!:;; P[!
p a`. 31&BA' 3(&.!Q!L)&D6)!O' &. &@+!C&. 30230Bb,!KK[!GJG;!(.!=61'A2!T6+)&1!X0B[Z,!
''#$%&#!53$2$?<!>$2+. /+. ,B!: $L.)!&2,!>$2#-3+!-2!+9.!12+.)2&+-$2&#!D-7-/-$2!$=!'&%$()[!
>&. B&. R!V&A3)0B*0!"1022.!: : : P[!
p a"&701,!C&. 4)('3!6. B!3#0!''1&BA'3(&. !&4!3#0!L)&D6)!O' &. &@+b,!KK[!GGJ G!(.!=61'A2!
T6+)&1! XOB[Z,! "#$%&#! 53$2$?<! >$2+. /+. , B! : $L.)! &2,! >$2#-3+! -2! +9.! 12+.)2&+-$2&#!
D-7-/-$2!$=!' &%$()[!>&. B&. R!V&A3)0B*0!"1022,!: ; ; P[!
p X7(3#! s3(0...0! C6.3(. Z! a=68(. *! 3#0! f5&182#&K! &4! 3#0! 5&1)BNR! C#(. 6! 6. B! 3#0!
T16. 24\&1@63(\&. |\&4|3\#0|^{\cdot}. 301. 63(\&. 6)|\$(/(2(\&. |\&4|>6D\&A1b,|KK[|]GJYS|(. |=61'A2|T6+)&1|
XOB[Z,! "#$%&#! 53$2$?<!>$2+. /+. , B!: $L.)!&2,!>$2=#-3+!-2!+9.!12+.)2&+-$2&#! D-7-/-$2!$=!
' &%$ ()[!>&. B&. R!V&A3)0B*0!"1022,!: ; ; P[!
p X7(3#! >&(2! F61B01Z! aV6**0B! C1A0)3+h! %&' (6)! "&)('+! T16. 24&1@63(&. 2! (.! d&13#!
?@01('6b,!KK[!: H]J G<!(.!m62@00.!?DAJ>6D6.,!V6B#6!I#6KK6.!6.B!\16.t&(2!V&'#01!
XOB2[Z,!1 $)+9!@?.)-3&2!: $#-+-3/B!"#$%&#-U&+-$2!&2,!>(#+().,!E1&6B/(07!"1022,!: ; ; P[!
p X7(3#! %A26...0! %&0B01D01*Z! aT#0! 9(..*! (2! $06B! X>&..*! >(/0! 3#0! 9(..*hZR! \1&@!
5 &)40. 2&#. !3&!5 &)4&7 (3j !63!3#0!5 &1)B!E6. 8b,!KK[!<]: J<YP!(. !$6/(B!=&&10!X0B[Z,!69.!
G$)#, !V&2XB!: $7. )+<QD. 7. #$A?. 2+QW.;.?$2<[!976uA)AR!976uA)AJd636)!"1022,!:;; Y[!
p ad63(&. JEA()B(. *,! %&' (6)! O. *(. 001(. *! 6. B! d0&)(D016)(2@! (. ! C#()0b,! (. ! = 618! T[!
E01*01! X0BZ,! E)$?! I &+-$2JV(-#, -2;!+$! *+&+.!V(-#, -2; ! E62(. *23&80R! "6)*16/0! "1022,!
:;;Y[!
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p aL)&D6)(263(&.! 6. B! 3#0! `. 301. 6)(263(&.! &4! d0&)(D016)(2@R! T#0! L0. 02(2! 6. B!
T16i0' 3\&1+!\&4!\%\&' (036)!V0231A' 3A1(.*!(.!C\#()0b,!(.!\%A26...0!\%\&0B01D01*,!L0&1*!=0.i!6.B!
"#()(K! C01. +! X0B2[Z,! 12+. )2&#-/-2; ! "#$%&#-/&+-$2B! 69.! K-/.!$=! I . $#-%. )&#-/?! &2,!+9.!
5)$/-$2!$=!I &+-$2&#!8$, .#/!$=!>&A-+&#-/?,!>&. B&. R!"6)*16/0,!: ; ; ][!
p aL&&B!L&/01. 6. '0!(. !6!L)&D6)(j (. *!016b,!KK[! ]J <Y!(. !16. (. 0!E1&B(0!6. B!%6. B16!
VO(. !XOB2[Z,!>)-+-3&#!>$23. A+/B!@2!12+)$, (3+-$2!+$!: $#-+-3/C!] d!5, -+-$2,!T&1&. 3&R!"0612&.,!
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p a" &/013+! " &)(' +! X = OW(' &Zb,! KK[! : P<J: PS! (. ! 3#0! 523<3#$A&. , -&! $=! *$3-&#! G. #=&).!
W-/+$\\\<!-2!1\$\)+9!\@\?.\)-3&\!\\\6^\*0!\\AD\\('\63(\&. 2\!:\;\]\\\\]!
B"51. C%B->)*$%
p a"A33(. *!F7(#2.)&%#.!;)$(A/H&+!+9.!3.2+).!$=!&, &A+&+-$2!-2+.)7.2+-$2/!%<!A)$?$+-2;!
+)&2/=$)?&+-7.!&,&A+&+-$2!&/!&!#.&)2-2;!A)$3.//b[!V0K&13!2AD@(330B!3&!3#0!d&170*(6.!
?*0. '+!4&1!$0/0)&K@0. 3!C&&K0163(&. [!=61' A2!T6+)&1,!%(1(!01(820. .!963#61(. 0!c(. '0. 3,!
d('8!E1&&82,!=&1*6.!%'&/())0J%(@&.B2,!0[!>(26!\[!%'#(KK01[!?K1()!::::[!
p aC)(@630! '#6, *0! (, 301/0, 3(&, 2! 6, B! /A), 016D()(3+! 10BA'3(&, ! (, ! B0/0)&K(, *!
'&A. 31(02R! C#6))0. *02! 6. B!)0/016*0! K&(. 32! 4&1! 316. 24&1@63(&. ! a! V&3X; )$(2,! A&A.)!
/(%?-++., !+$!+9.!8-2-/+)<!$=!E$).-; 2!@=&-)/(!I$)L&<!6. B! KAD)(2#0B!62!6!d&16*1('!
5&18(. *!"6K01|X: ; GHZ[!51(330. !D+R!%(1(!01(820. ,!0[!>(26!\[!%' #(KK01,!03!6)[!
p aG9&+W!*?&)+!@%$(+!>#-?&+.J/?&)+!@;)-3(#+().[b!
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Gran and F nding

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External Research Grants
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Internal Research Grants

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: ; : G,!$ ,000[!a%A236(. 6D()(3+!T16. 24&1@63(&. 2!(. !062301. !o. 361(&!?*1('A)3A10b[!
!
%0. 630!?B/(2&1+!V02061' #!C&@@(3300,!MA00. N2! - . (/012(3+,!?K1()!: ; GG!Q! = 61' #!: ; G: ,!
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Marcus Taylor - CV June

'&. 4010. '0!

Ser ice and Admini ra i e E perience

Ad a eE e e ce

Department:

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>0/01#A)@0!V02061'#!L16. 32,!d&/0@D01!: ; : G[!
        • $A3' #!V02061' #!C&A. '()!Xd5oZ!`. B(6. !$0K613@0. 3!&4!E(&30' #. &)&*+!X$ETZ!J!
               >$$A.)&+-$2!12,-&J69.!1.+9.)#&2,/!:)$;)&??.!$2!>#-?&+.!*?&)+!@;)-3(#+().,!
               $0'0@D01!: ; : ; [!
        • E1(3(2#!?'6B0@+!^!>0/01#A)@0!%@6))!V02061'#!L16.32,!d&/0@D01!:; GP[!
       • %%FVC!(. 2(*#3!*16. 3,!!6. A61+!: ; GS[!
        • %%FVC!(. 2(*#3!*16. 3,!16. A61+!: ; G [!
        • %%FVC!236. B61B!102061' #!*16. 3,!I6. A61+!: ; GG[!
        • %%FVC!236. B61B!102061' #!*16. 3,!16. A61+!: ; G; [!
Book Proposal / Manuscript Reviews:
V$$X!?&2(/3)-A+!).7-.L.)!=$)B!!
                -. (/012(3+!&4!C6)(4&1. (6!"1022,!IA. 0!: ; : ; [!
               -.(/012(3+!&4!?1(j \&. 6!"1022,!=6+!: ; GP[!
               -. (/012(3+!&4!T&1&. 3&!"1022,!o'3&D01!: ; GG,!IA. 0!: ; G: [!
               "6)*16/0!"1022,!?A*A23!: ; ; <[!
V$$X!A)$A$/&#!).7-.L.)!=$)B!!
               V&A3)0B*0!"1022,!IA. 0!: ; G_,!o'3&D01!: ; G<,!?K1(),!: ; GP,!I6. A61+!: ; GH,!=61'#!
               :;::[!
Article Reviews:
X<G!2(. '0!: ; GP!6' 1&22!: G!B(44010. 3!i&A1. 6)2Z!
".$=$)(?,!=61'#!:;GS,!?A*A23!:;GH,!IA. 0!:;:;,!=61'#!:;::,!IA. 0!:;::[!
>\#?&+.!&2,!D.7.\#$A?.2+,!o'3&D01!:;G<q!IA.0!:;G]q!=6+,!:;GPq!d&/0@D01!:;GPq!
               16. A61+!: ; : : [!
K()&#!*$3-$#$; <,!=6+!: :: G,!%0K30@D01,!: :: G[!
>&2&, -&2! T$ ()2&#! $=! D. 7. #$A?. 2+! *+(, -. /! o'3&D01! : ; ; Y,! =6+! : ; GY,! IA. 0! : ; GY,!
               o'3&D01!: ; GY_{i}!?K1()!: ; : ; i!=6+!: ; : ; i!?A*A23!: ; : G[!
T$()2\&\#\$=\emptyset; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&0; \&
               o'3&D01!:; G],!d&/0@D01!:; GS,!?K1()!:; GY,!%0K30@D01!:; GY,!\0D1A61+!:; GP,!
               ?K1()!: ; GPg!d&/0@D01,!
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T$()2&#!$=!K()&#!*+(,-./,!I6.A61+!:;GP,!?K1()!:;GP,!?A*A23!:;GH,!?K1()!:;:,!
%0K30@D01!:;:;[!
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12+.)2&+-$2&#!T$()2&#!$=!a2$L#.,;.!8&2&;.?.2+!*+(,-./,!IA)+!:;:;[!
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527-)$2?.2+QD.7.#$A?.2+!&2,!*(/+&-2&%-#-+<,!IA.0!:;:;[!
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I &+().!b!:#&2+/Q%0K30@D01!:;GH,!?K1()!:;:;[!
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69-),!G$)#,!M(&)+.)#<QI6.A61+!:;:;[!
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^C&+-!*$3-$J'.;&#!*.)-./,!I6.A61+!:;:;[!
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6.392$#$;<!-2!*$3-.+<,!d&/0@D01!:;GH[!
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I. L!: $#-+3&#! 53$2$??<,! ?K1()!:;; S,! I6. A61+!:; G;,! I6. A61+!:; GG,! IA. 0!:; GG,! d&/0@D01,!:; G][!
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> (#+().!d2%$(2,,!IA. 0!:; G_[!
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5()$A. &2!!$()2&#!$=!D. 7. #$A?. 2+!K. /. &)39,!?K1()!:; G: [!
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*+(,-./!-2!>$?A&)&+-7.!12+.)2&+-$2&#!D. 7. #$A?. 2+,!%0K30@D01!:; GG[!
!
$()2&#!$=!*$3-&#!: $#-3/!&2,!12+.)2&+-$2&#!K. #&+-$2/,!=61' #!:;; P[!
!
V)-+-/9!!$()2&#!$=!: $#-+3/!&2,!12+.)2&+-$2&#!K. #&+-$2/,!=61' #!:;; P[!
!
**$%&#!>9&2; .0:. &3.!&2,!*.3()-+<,!I6. A61+!:;; Y[!
!
*$3-$#$; -3&#!:.)/A. 3+-7./,!o'3&D01!:;; <,!=61' #!:;; ][!
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Teaching and S per i ion

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S e
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@$\$3>)*;1$"*/%
!
"&23B&'3&16)!)0/0)!
!

• 962(@! T(1@(j 0+,! $0K613@0. 3! &4! L)&D6)! $0/0)&K@0. 3! %3AB(02,! MA00. \(\mathbb{Q}!\)
- . (/012(3+,!: ; : ; J: ; :: [!\%AKK&130B!D+!3\(mathbb{P}!\) = 2, /!, .!K. 39.)39.!, (!M(\%. 3[!])  
"#$!)0/0)!
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- %&!m&A. !9(@,!L)&D6)!\$0/0)&K@0. 3!%3AB(02,!MA00. N2!-. (/012(3+,!: ; : : JK1020. 3[!
- ?)+226! 106/&. 2,! L)&D6)! \$0/0)&K@0. 3! %3AB(02,! MA00. \(\mathbb{Q}\)! . (/012(3+,!: ;:: J K1020. 3[!
- 16. 0330!F6620,!L)&D6)!\$0/0)&K@0. 3!%3AB(02,!MA00. \(\mathbb{L}\)!- . (/012(3+,!: ; : ; JK1020. 3[!
- E1+6. ! C&))(. 2,! %' #&&)! &4! O. /(1&. @0. 36)! %3AB(02,! MA00. \(\begin{align*} \begin{align*} \text{-.} (/012(3+,!:; GHJ \text{K1020. 3}[!
- 0)#6@! m&A2(4(. 0i6B,! \$0K613@0. 3! &4! %&'(&)&*+,! MA00. \(\begin{align*} \begin{align*} \text{-.} \(/\text{012}(3+,! : ; \text{GYJ} \) \(\text{K1020. 3}! \)
- %#6(4A))6#! = 0#0B(,! \$0K613@0. 3! &4! %&' (&)&*+,! MA00. \(\text{\O}\)! . (\(\frac{1}{0}\)1(3+,! : ; G<\) \(K1020. 3\)[\(\frac{1}{6}\)9.!1))-; \(&+-\\$2!>\)-\(-\!\\$=!*?\\ &##9\\$#, .)!E\(&)?.\)\(!-2!!\\$)+9.\()2!V\(&2\); \(#\&, .\frac{90}{6}\)
- I&1B6. !%3618,!\$0K613@0. 3!&4!L)&D6)!\$0/0)&K@0. 3!%3AB(02,!MA00. \\[\begin{align*} \begin{align*} \begin{alig
- \$06. !CA116. ,!\$0K613@0. 3!&4!%&'(&)&*+,!MA00. \(\mathbb{Q}! \cdot (/012(3+,!: ; ; \text{H!J!})\)

- I022('6!%(BB6)),!L)&D6)!\$0/0)&K@0.3!%3AB(02,!:;GPJGH[!69.1:\$#-+-3&#!53\$2\$?<!\$=!D-/&/+.)!K-/X!K., (3+-\$2!*+)&+.;-./!-2!V\$#-7-&0!
- 0)(!%' #0(. @6. ,!%' #&&)!&4!0. /(1&. @0. 36)!%3AB(02,!: ; GSJ: ; GP[!>\$2+. /+. , !E (+(). /! b!@;)-3 (#+()&#!X2\$L#. , ; . @/. . , !/</+. ?/!&2 , !&;)&)-&2!). =\$)?!-2!/\$ (+9!a&)2&+&X&@12 , -&[!
- C63#01(. 0!L6*. 0,IL)&D6)!\$0/0)&K@0. 3!%3AB(02,I: ; GYJ: ; GP[!G\$?. 20!@#+.)2&+-7.! '-7.#-9\$\$,!:)\$;)&?/!&2,!@)+-/&2&#!*?&#J*3&#.!8-2-2;!&)\$(2,!@+. L&!E\$)./+0!"9&2&[!

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%8+0! TA1. 01J 56)801,! \0. . 01! %' #&&)! &4! 0. /(1&. @0. 3! e! %&' (03+[! ?A2316)(6. !
       d63(&. 6)!-. (/012(3+,!: ; : : [!
    • ?@D61(2#!9616@'#0BA,!$0K613@0.3!&4!$0/0)&K@0.3!"&)('+!6.B!=6.6*0@0.3,!
       =6. '#02301!-. (/012(3+,!: ; : G[!
      =('#60)!=(8A)0/('j_{1})*0K613@0.3!&4!L0&*16K#+_{1}!=6.'#02301!-.(/012(3+_{1}::GY[!])*1.5]
       =6. \&i! = (216!\$0K613@0.3!\&4!\%\&'(\&)\&^* + !-. (/012(3+!\&4!?)D0136!:; G<[!]
?3!MA00. N2! - . (/012(3+R!
"#$!)0/0)!
       1&1B6. !%3618,!L)&D6)!$0/0)&K@0. 3!%3AB(02,!(. !K1&*1022[!
       >(6&,lu()&. *!,!L)&D6)!$0/0)&K@0. 3!%3AB(02,!(. !K1&*1022[!
       >6@6!T67688&),!"&)(3('6)!%3AB(02,!(. !K1&*1022[!
       O/&B(A2!VA336,!O. /(1&. @0. 36)!%3AB(02,!(. !K1&*1022[!
       F6. . 6#!EA1*U!>A/(6. &,!CA)3A16)!%3AB(02,!(. !K1&*1022[!
      d63#6)(6!%6. 3&2!o' 62(&,!L0&*16K#+,!(. !K1&*1022[!
       ?8(4!F62@(,!"&)(3('6)!%3AB(02,!(.!K1&*1022[!
       %616#!%#61@6,!"&)(3('6)!%3AB(02,!'&@K)030B!%0K30@D01!: ; : G[!
       V&206. . !9011,!\6' A)3+!&4!OBA' 63(&. ,!' &@K)030B!: ; : ; [!
       %6. B16!= 'CADD(. ,!L0&*16K#+,!'&@K)030B,!: ; : ; [!
       %A26. !E0)+06,!9(. 02(&)&*+!6. B!F06)3#!%3AB(02,!' &@K)030B!: ; GP[!
       5())!>6. *4&1B,!F(23&1+,!' &@K)030B!: ; GY[!!
       1044! = \&.6*#6., !\%\&'(\&)\&^*+, !'\&@K)030B!; GY[!]
   •
       10220!F0@D1A44,!"&)(3('6)!%3AB(02,!'&@K)030B!:; GS[!

    V&D013!=())(. *3&. ,!9(. 02(&)&*+!6. B!F06)3#!%3AB(02,!' &@K)030B!: ; G][!

      ?61&.!033(. *01,!"&)(3('6)!%3AB(02,!'&@K)030B!: ; G !
       I(0!$0. *,!$0K613@0. 3!&4!F(23&1+-. (/012(3+,!'&@K)030B!: ; G: [!
       I(6. #A6!m6&,!$0K613@0. 3!&4!%&'(&)&*+,!'&@K)030B!: ; G: [!
```

=?!)0/0)!

• ?2#)0+!C)6180,!=?!T#02(2,!L)&D6)!\$0/0)&K@0.3!%3AB(02,!'&@K)030B!

```
$0c%!G;; R!>&2&, &!&2, !+9.!69-), !G$)#, [!\6))!:;: G[!
$0c%!G; ]R!D. 7. #$A?. 2+!-2!"#$%&#!: . )/A. 3+-7. [!5(. 301!: ; : G[!
$0c%!: _; R!: $#-+-3&#!53$2$?<!$=!D. 7. #$A?. 2+[!\6))!: ;; S,!\6))!: ;; Y,!5(. 301!: ;; H,!\6))!
        : ; G; [!
$0c%!: ]; R!"#$%&#!527-)$2?.2+&#!6)&2/=$)?&+-$2[!\6))!:; GS,!5(.301!:; GP,!\6))!:; GP,!
        \6))!: ; GH[!5(. 301!: ; : G[!
$0c%! GGR!'&%$()!&2,!"#$%&#!D.7.#$A?.2+[!5(.301!:;G;.!5(.301!:;G,.!5(.301!:;G<,!!
        5(. 301!: ; G],!5(. 301,!: ; GY,!5(. 301!: ; GP[!
$0c%!_<; R!69. $)-. /!$=!D. 7. #$A?. 2+0!\6))!: ; ; S,!\6))!: ; ; Y,!\6))!: ; ; P,!\6))!: ; ; H,!5(. 301!
        :; G; ,!\6)),!:; G: ,!\6))!:; G ,!\6))!:; G<[!
$0c%!<HS^P; SR!>#-?&+.!>9&2; .!&2, !D. 7.#$A?. 2+[!\6)),!: ; G_,!\6))!: ; G<,!5(. 301!: ; GY,!
        \6))!: ; GY[!
$0c%!P; GR!69. $)-. /!$=!D. 7. #$A?. 2+[!\6))!: ; G; [!
$0c%!P;: R!>(#+()&#!: $#-+-3/!$=!D.7.#$A?.2+[!5(.301!:;GH,!5(.301!:;:;[!
$0c%!PG; R!d2. 7. 2!D. 7. #$A?. 2+[!5(. 301!: ; G; ,!5(. 301!: ; GG[!
$0c%!P]; R!: )$=. //-$2&#!*. ?-2&)!-2!D. 7. #$A?. 2+!*+(, -. /[!: ; G<JGP[!
D-).3+.,!K.&,-2;!>$()/./B!
%-V"!PHGRID-). 3+., !*+(, <!-2!@, 70!@/A. 3+/!$=!d)%&2!&2, !K.; -$2&#!: #&22-2; ,!\6))!:;; S!
XG!23AB0. 3Z[!
$0c%!PH; R!G&+. )/3&A. /!-2!*$(+9!@/-&[!5(. 301!: ; G]!X<!23AB0. 32Z[!
$0c%!PH; R!: $#-+-3&#!53$#$; <[!5(. 301!: ; GP!X<!23AB0. 32Z[!
$0c%!PH; R!>#-?&+.!>9&2; .!@, &A+&+-$2[!5(.301!:; GH!X<!23AB0.32Z[!
$0c%!PH; R!
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