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QQ

CO RSES IA GHU AN SKIDMORE COLLEGE

"

^ 7%8\$13+9-3% _ /\$%3`\$13+%\$(=" 'B\$\$3+*K . =GGaL"
^ 7%8\$13+9-3% B "W%1 '*%\$13+%\$("N%\$3*+% O '%1-+", "=7-3% ' --"K . ="JMHL"
W% *+87T13+6"1+ b +O '%c-"61783' -"Kd b " !M!L"
W- B " . '(/ +1" =+3(3% / _ S '*e"93S '*-31D"\$8"93-T*3O 3%\$13+% "3%"IB ""
5) '*3T\$% " + * : (\$T "K . ="JJHYL"
2 'E"234 '*D"\$8"IB "")7*-731"+, ">\$: 31\$(3- O "K66) " !MML"
. 7(13T7(17*\$ ("^(\$* 'IR : -0"Nf : (+-3S "W8 '%131D">+%, (3T1-"3%"IB " "R65 "KW 9"GG !L"
6 '%3+*"6' O 3%\$*3%W%1 '*%\$13+%\$("5 , , \$3*-"KW 5 "J JHL"
^\$T' -"\$8") B\$- ' - "+, "d (+4\$(">\$: 31\$(3- O "KW 5 "J@ !L"
['- '\$*TB" . 'IB+8-"3%W%1 '*%\$13+%\$("5 , , \$3*-"KW 5 "GM !L"

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CO RSES IA GHU O I SIDE SKIDMORE COLLEGE

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Y 0 \$% [' +7*T . \$%\$ / ' O '%1"KR%8 '*/*\$87\$1 "' < " . = 5 L"
! . 3%\$ / '*3\$ 6&3(0 "KNf ' T713S ' L"
! _ /\$%3`\$13% %\$(=" B\$\$3+*KR%8 '*/*\$87\$1 'E" . = 5 "<"9+T1+*\$(L"
! _ /\$%3`\$13% %<" 8 O 3%3-1*\$13S "'UB' +*D"KR%8 '*/*\$87\$1 "' < "9+T1+*\$(L"
! W% '*%\$13+%\$("N%\$ *+% O '%1-+", "=7-3% ' --"KR%8 '*/*\$87\$1 "' < " . = 5 L"
! g \$(31\$13S ^3'(8 . 'IB+8-"K9+T1+*\$("6' O 3%\$*L"
! A\$*\$13S "'d '%*-' "+, " ['- '\$*TB"K9+T1+*\$("6' O 3%\$*L"
! >+* : +*\$1 "'6+T3\$(['- : +%-343(31D"K . \$-1 '*-" < "9+T1+*\$(L"

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DOCUORALS PER ISION

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X7831B"=3*8-' (" 5 % "W%-131713+%\$("5 %\$(D-3-+", ") +(3TDI . \$&3% / "3%"IB "" >\$%\$83\$%"
=* '\$-1">\$%T '* " ['- '\$*TB"W%313\$13S "'KR%3S '*-31D"+, ">\$(/ \$*DE"
! \ \ ?L"

"

U30+1BD"YD% '-)\$11 '*%-' "+, " . +T&"=7* '\$7T*\$TD"3% " . 3%3% / "93-\$-1 '*-"
KR%3S '*-31D"+, ">\$(/ \$*DE" ! \ \ \ L"

"

>B\$*(+11 "NTB1% '* " 5 ") +-IT+(+3\$("6' O 3+13T"6178D"+, "IB "" . \$&' 13% / "+, "UB3*8"
b +*(8" U+7*3-0 "9 '-13%\$13+%-"KR%3S '*-31D"+, ">\$(/ \$*DE"GMMML"

"

X' , , *'D"NS '* '11")74(3T") +(3TDI . \$&3% / "3%") \$* & -">\$%\$8\$0"R-3% / ") 3 '* * ' "
=+7*83' 7"1+"R%8 '*-1\$8"W%-131713+%\$("9D%\$ O 3T-"KR%3S '*-31D"
+, ">\$(/ \$*DE"GMM !L"

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SCHOLARL BOOKS

! "#\$%&'()*+,#&%#%&-.)/.0.#"123)4 5"6&'(&'')%2.)750%8750&%&-&0%)9"#: &%&5'0;"K- 'T+%8"
'8313+%L;"A'C" F+* &0" [+71('8/ 'E"GM! ?;"U*\$%-(\$1'8"3%1+"X\$: \$%' - 'E"GM!];

/5+% ..:(.)!5; <# '&5')%5"

"

Nf\$03%3%/"1B'">+%1+7*-"+" b +*&:(\$T'"93S '*-31D0">+%T':1-E">+%1'f1-"\$%8">B\$((%'/'-"
KC31B"5(3-+% i +%*\$8"<"X7831B")*3%/('L;"W%"5;" i +%*\$8E");)*\$-\$8"<"X;")*3%/('"KN8-;LE"
B#':C556)5\$)45"6<,#1.)D&-."O&%E0"!IGG;"2+%8+%0"6\$/ '"")74(3T\$13+%-;"GMMH;"

"

93S '*-31D"+%"_7*" . 3%8-0" . \$%\$/3%/"93,, '* '%T'"3%">+%1' O :+*\$*D" _*/\$%3`\$13+%-;"W%""
6;"A+7*" <"2;"A'((O\$%"UB3-1'8"KN8-;LE"

"

REFEREED JO RNAL P BLICATIONS

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60+&'"\$%8" . 3**+*-0"W%-131713+%("N%1* *%'7*-B3:"\$%8" d '%8' *W8' %1313' -"3%"1B'"R;6;"
U+4\$TT+"W%87-1*DE"! \GMI! \a@"KC31B"5%-B70\$%) *\$-\$8"<" i '(D="\$&'*L;"F"('#'&G##&5'E"
GM!HE"GJ0"GG]IGa\;"

"

W%+%S\$13+%"3%"1B'" d(+4\$("5 / '0"W0 : (3T\$ +%- ,+*" =7-3%' --"\$%8" . \$%\$/ ' 0 '%1"3%"1B'"
i %+C('8/ ' "NT+ %+ 0D"KC31B"5%-B70\$%) *\$-\$8L;"J'%. " '#&5 '#,)05+ "' #,)5\$)P+0&' .00)
H: ; &'&0%'#&5'E"a0"?GI?\;"GM!J;"

j_%"' . 3**+*"3%"5%+1B'*k0" . \$%\$/3%/"93S' *-31D"\$%8"1B'"93-T+7*-' "+, ^\$-B3+%"KC31B"
5%-B70\$%) *\$-\$8"<" ['\$`\$' . 3*L;"B+ ; #')/ . , #&5 '0E"GM!GE"Ha0"]MJ"n"]Ga;"

"

. +S3% /" _710"U+C\$*8"R%8' *-1\$%83% /"1B' ">+ 0 : (' f31D"+, "_71-+7*T3% /"3%"1B'"5 / '+' ,"
d(+4\$(3`\$13+%"KC31B"5%-B70\$%) *\$-\$8L;"P+0&' .00)/ . '#&00#'1.) *+##% . ",EE"GMM]E"G0"H] "I" \ !;"

"

d(+4\$("U*\$%-313+%-0"UB'"NO '* /3% /"A'C" b +*(8" _*8' *"\$%8"31-"W0 : (3T\$13+%- ,+*" =7-3%' --"
\$%8" . \$%\$/ ' 0 '%1"KC31B"5%-B70\$%) *\$-\$8L;"P+0&' .00)/ . '#&00#'1.) *+##% . ",EE"GMMHE"!p"
\ !I!!J;"

"

W%"1B'"A\$0' "+, "1B'") *\$T13T\$(0"R%' \$*1B3% /"1B'"Y' / ' 0+D"+,) *\$ / 0\$ETQq21\$. 2+8l(/') 0 . 2(] 0 . 0 . 412589

"

UB 'N('T1*+%3T"U*\$%-,+*O\$13+%"+,"IB" _*/\$%3`\$13+%\$(" . ' '13%/0"R-3%/"U'TB%+(+/DI3%I
>+%1' f"1+"R%8 '*-1\$%8" d*+7:"67: :+*1"6D-1' 0-"Kd 66-L;"KC31B"9\$%>(\$: : '*L;"9. 12 '5,5(E)
>%+:.d.O"E"!\ \ \E"S+(;aE"

"

NS '*D8\$D"61*7//('-\$1"IB" " b +*&:(\$T'0"UB "A\$17*" "\$%8"W O :(3T\$13+%-"+," [+713% " ['-3-1\$%T'"
KC31B" 5%-B70\$%) *\$-\$8L;"/.0.#"12)&')%2.)>5I&5,5(E)5\$)F"(# '&G#%&5 '0E"!\ \ \E"S+(; !@E"GG@I
G@];"

"

b B '% "IB" "N1B%+/*\$: B3T"674h'T1"6: '\$&-"=\$T& ;05+" '#,)5\$)=#'#(. ; . '%)J'L+&"EE"!\ \ \?E"
S+(;]E"J!IJH;"

"

)\$11' *%-" +," . +T&"=7* '\$7T*\$TD"3%" . 3%3%/"93-\$-1' *-0" 5%" 5%\$(D-3-" +,"IB" " b '-1*\$D" . 3% ' "
Nf:(+ -3+% "KC31B"U3O +IBD"YD% '-LE"05+" '#,)5\$)=#'#(. ; . '%)>%+:.d.OE"!\ \ \]E"S+(;JaE"HM!I
HGJ;"

"

>*31T\$("UB'+*D"\$%8" . \$%\$/ ' O ' %1"N87T\$13+%0"N%/\$/3%/") +C' *E"W8'+(+/D"\$%8") *\$f3-"KC31B"
)\$7(\$">\$: +%3L; ;05+" '#,)5\$)=#'#(. ; . '%)K: +I#%&5 'E"!\ \ \]E"S+(;G!E"

"

b +*&3%/"C31B"IB" "q6O\$*1c" . \$TB3% '0">+O :71' *3` \$13+% "\$%8"IB" "93-T+7*- ' "+,"
5%1B*+: +O+* :B3- O "3%" _*/\$%3`\$13+%-;">%+:.d.0)&')! +,%+" .0N)F"(# '&G#%&5 '0)#' :)>5I&. %&. OE"
!\ \ \@E"S+(; !E"G@JIGH@;"

"

UB "'W8'+(+/D"+,") *+, '--3+%\$(3- O "\$%8" b +*&">+O :71' *3` \$13+%0" 5%"W%-131713+%\$(3-1"6178D"+,"
U'TB%+(+/3T\$(">B\$%/" "KC31B" 5%-B70\$%) *\$-\$8L;"B+; #')/.,#%&5 '0E"!\ \ \aE"S+(;a]E"!aJJI
!a@?;"

"

9*7/"U' -13%/"\$-"6D04+(3T" . \$%\$/ '*3\$("5 T13+% "KC31B" . 3&" ">\$\$%\$7/BL;"F"(# '&G#%&5 ')
>I&. 'I.N"!\ \ \aE"S+(;@E"GH]IG] !;"

"

6D04+(3T") *+T' -- "-3%"IB" "W O :(' O ' %1\$13+%"+,"U'TB%+(+/3T\$(">B\$%/'0" 5"6D04+(3T"
W%1'*\$T13+%3-1"6178D"+," b +*&">+O :71' *3` \$13+%;"HI#: . ; E)5\$)=#'#(. ; . '%)05+" '#,E"!\ \ \aE"
S+(;JHE"!aMMI

PUBLISHED PANEL DISCUSSIONS

9+T1+*\$("N87T\$13+% "\$8"IB" "U" \$TB3%/" . 3--3+%; "5"93\$(+/7'"C31B"X'\$%"=\$*17%'&E"2' "'
=7*&'E"X\$%" "d3\$T+44'I . 3(('*E">*3/"27%84'*/"\$8")7-B&\$("\$)*\$-\$8;)05+" '#,)5\$)
=#'#(. ; . '%)K:+I#%&5'-(!\ \HE"S+(:GM;"

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SPECIAL EDITORIAL ASSIGNMENTS

>+I'831+*"KC31B" \$7(\$>\$: +%3LE"- : 'T3\$("3--7'"+">*313T\$("UB'+*D"\$8" . \$%\$/ ' O '%1"
N87T\$13+%E""05+ #,)5\$)=#'#(. ; . '%)K:+I#%&5'E"! \ \]E"S+(:G!;"
">+I'831+*"KC31B" \$,%\$ND(+%LE"- : 'T3\$("3--7'"+"1B"Y3-1+*D"+, " b +*&:(ST"NO : +C '* O '%1E""
05+" '#,)5\$)H<<, (:)P. 2#-%5'#,)>I&. 'I.E"GM!E"S+(:J]E"A+;!;"
">+I'831+*"KC31B"5%-B70\$%)*\$-\$8LE"- : 'T3\$("3--7'"+"W%1'*:*'13S'"d'%*"-3%"_*/\$%3`\$13+%
['-'*\$TBE" F"('#'&G#%&5')/.0.#"12)=.%25:0E"GMMGE"S+(:@E"A+;!;"

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CONFERENCE PROCEEDINGS

)*\$T13T\$(D"9\$%/'*+7-0"Nf:(+*3%/"1B"Y'/'O+D"+, "q)*\$/O\$13-0c"3%1B"93-T+7*- "'+, "
N%\$3*+%O'1\$("\$. \$%\$/ ' O '%1"KC31B" . 3TB\$\$("N(O'-L;"7"51. . :&' (0)5\$)%2.)M#'(+#(.)&')
P+0&' .00)#':)F"('#'&G#%&5'0">+%, '*%T'E" _B3+61\$1"R%3S'*-31DE">+(7O47-E" _B3+E" . \$D"
! \ \ \ ;;"
"KR%LC3((3%/"1+" ['-3-le">7%%3%/"5T1+*-E"W8'+(+/3T\$("97:'-\$%8"IB"93-T7*-3S'"
>+%-131713+%"+, " [+713%" " b +*&:(ST" ['-3-1\$%T"KC31B"5%-B70\$%)*\$-\$8L;"7"51. . :&' (0)5\$)
%2.)RS^2)J'%' . "'#%&5'#,)M#C5+"7"51.00)!5'\$. " 'I.E"2+%8+%E" . \$*TB"! \ \ \ ;;"
"b B\$1"3%"1B" " b +*(8"9+'- "W%1'*\$%\$13+%\$(" . '\$%e"5")*(3O3%\$*D"W%S'-13/\$13+%"+, " . =5"
)*+/*\$0"=*+TB7*'- "3%"A+*1B"5O'*\$T\$%"=7-3%'--"6TB+(-"KC31B">B*D--"\$6B\$*:L;"
7"51. . :&' (0)5\$)%2.)H' '+#,)= . . %&' (0)5\$)%2.)K#0%. "')H1#:. ; E)5\$)=#'#(. ; . '%E" . \$D"! \ \ HE"
b \$-B3%/1+% "9;>;"
". +T&"=7*\$7T*\$TD"\$-\$" i 'D" ^\$T1+*3%"W%87-1*3\$(">*3-'-0"5%"5%\$(D-3-+", "1B" " b '-1*\$D">+\$("
. 3%" "93-\$-1' *"KC31B"U3O+1BD"YD%"-L;"7"51. . :&' (0)5\$)%2.)K#0%. "')H1#:. ; E)5\$)
=#'#(. ; . '%E" . \$D"! \ \ @E"W1B\$T\$E"A' C' F+*&;"
"UB" [\$13+%\$(3`\$13+%"+, "1B" _*/\$%3`\$13+%\$(" . "'13%/0"W O : (3T\$13+%-"+" , "d*+7:"67: : +*1"
6D-1' O-" , +*") +C' *E"6D04+(3-0"\$%8" ^\$T' I b +*&"KC31B"9\$%3\$(">(\$: : '*L;"7"51. . :&' (0)5\$)
%2.)H' '+#,)= . . %&' (0)5\$)J! J>"KW%1'*\$%\$13+%\$(">+%, '*%T'"+"W%, +*O\$13+%6D-1' O -LE"
9'T'04' *!" \ \ JE"^(+*38\$;"

"

9*7/"U'-13%/"3%"IB'" b +*&:(ST'0"UB'"6D04+(3T' . \$%\$/' 0 '%1"+,"\$% _*/\$%3`\$13+%\$(">*3-3-"
KC31B" . 3TB\$'(">\$S\$%\$7/B"\$%8"X+B%" . 3TB\$'("_&' -L;"7"51...:&' (0)5\$)%2.)K#0%."')
HI#:. ; E)5\$)=#'#(. ; . '%E" . \$D"! \ \GE"=\$130+*';"

"

23, "\$%8"9 '\$1B"3%">\$* ' '*0"5"Nf: '*3'%13\$("Nf'*T3-'"23%&3%/">\$* ' '*")(\$%3%/"1+"6178 '%1"
Z\$(7' -"\$%8"A+13+%-"+,"1B"qd++8"23, 'c;"7"51...:&' (0)5\$)%2.)K#0%."')HI#:. ; E)5\$)
=#'#(. ; . '%E" . \$D"! \ \GE"=\$130+*';"

"

UB'">+%T':1"+, "5(3'%\$13+% "\$%8" b +*&:(ST'"NO :+C '*O '%1"KC31B"5%-B70%) *\$-\$8L;"
7"51...:&' (0)5\$)%2.)K#0%."')HI#:. ; E)5\$)=#'#(. ; . '%E" . \$D"! \ \!E"Y\$*1,+*8;"

"

qW O\$ /3% /c"IB'" _*/\$%3`\$13+% "3%"IB'">(\$-+*++00")+*1\$317*"\$-\$") '8\$ /+/3T"9 'S3T'"+*"
Nf: '*3'%T3%/"93S '*-' _*/\$%3`\$13+%\$ (" [' '\$(313'-'KC31B"X;" . 3TB\$'(">\$S\$%\$7/BL;"7"51...:&' (0)
5\$)%2.)K#0%."')HI#:. ; E)5\$)=#'#(. ; . '%E" . \$D"! \ \ME"=7,,\$(+;"

"

UB'">+0 :71 '*3`\$13+%"+, "b B31'I>+(((\$" b +*&"3%" _*/\$%3`\$13+% -0"5">*313T\$("\$%8"
>+0 :* 'B' % -3S'"67*S'D"+,"1B'"231 '*17*"C31B"67// '-13+% -"+*^717*" [' - '\$*TB;"
7"51...:&' (0)5\$)%2.)D. 1k0&5')>1k. '1.0)H' '+#), =. %&' (0E"A+S' 04 '*! \ ? \ E" A' C" _*('\$% -;"

"

_*/\$%3`\$13+%I . \$&3%/"\$%8" . \$3%1'%\$T'0"5%"W%1 '*: '*13S'"5TT+7%1"+,"\$R%3+%c-'^+*O\$13+%"
3%"F\$("\$R%3S '*-31D;"7"51...:&' (0)5\$)%2.)K#0%."')HI#:. ; E)5\$)=#'#(. ; . '%E" . \$D"! \ ? \ ;"

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REFEREED CONFERENCE PRESENTATIONS

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>\$**3'8"\$%8"9 '(3S '*'80" [\$T3\$(3`'8" d '-1\$13-)\$24+*\$%8"A' C">+%1+7*-"+") *T\$*31D;"
)\$: '*:*' - '%1'8"\$1"1B'"5 %%7\$(. ' '13% /- "+, B' N\$-1 '*%"6+T3+(+/3T\$("6+T3'1D" . ' '13% /-E"
)B3(\$8' (:B3E" ^'4*7\$*D"GMGM;"

"

UB'"U+*" g 73(10"R%8 '*-1\$%83%/">+%1' 0 :+ \$D' 18 '%131D">+%, (3T1-"UB*+7/B"1B'"Z' B3T('"+,
Nf: (+-3S'" _*/\$%3`\$13+%\$ ("N%T+7%1' *-*;")\$: '*: '*' - '%1'8"\$1"1B'"=3\$%7\$(" g [. "Kg 7\$(31\$13S'"
['- '\$*TB" . '1B+8-"3%" _*/\$%3`\$13+% -L">+%, '* '%1'E"5(47m7 '*m7'E" A' C" . ' f3T+E" . \$*TB"
GM! ?;"

"

5%30\$("Nf13%T13+%- "\$%8"NT(3: -' "+, "1B'"6\$T*'80"UB'" b +*(8+", "1B'"^7*"U*\$8'"3%"A' C"
N% /(\$%8"\$%8"1B'" d * '\$1"2&&' -" ['/3+% "3%"1B'" !H1B"\$%8"!]^{1B}

"

W%-131713+%- "\$%8"Nf+13T3`\$13+%0" . \$%\$/3%/ "1+ " i ' ' : "1B " _1B '*3%)(\$T';) \$: '*: * - '%1'8"\$1" IB'" 5 % % 7\$ (" . ' ' 13% / - "+, "1B'" 5T\$8' OD"+, . \$%\$/ ' O '%1E"9 '%S '*E" 57/7-1"GMMG;"

"

9 '-3/%3%/ "93,, '*%T'0"93S '*-31D" . \$%\$/ ' O '%1"\$%8"1B'"93-T+7*- ' "+, "^\$-B3+% "KC31B" 5%-B70\$%) *\$-\$8L;") \$: '*: * - '%1'8"\$1"1B'" ! ?1B" 5 % % 7\$ (" . ' ' 13% / - "+, "Nd _6"KN7*+: ' "\$% d*+7: ", +*_ _ / % \$ 3 ` \$ 13 + % " 61783' -LE" = \$ * T' (+% \$ E " X7 (D " GMMG; ""

"

= '1C' '% "A\$13S' "\$%8") *+, ' --3+% \$ ("61*\$% / '*0"N1B%+ / *\$: B3T"93(' O O \$ - "3% "1B'" 6178D"+, " _ * / % \$ 3 ` \$ 13 + % \$ (" > 7 (17* ' -; ") \$: '*: * - '%1'8"\$1"1B'" 5 % % 7\$ (" . ' ' 13% / - "+, "1B'" 5T\$8' OD"+, . \$%\$/ ' O '%1E" b \$ -B3% / 1+%E"9 ; > ; E" 57/7-1E"GMM! ;"

"

> * + - - 3% / " > 7 (17* ' - 0" 5 ") + - 1T + (+ % 3\$ (" 5 % \$ (D - 3 - "+, "\$% "W%1 '*I_ _ / % \$ 3 ` \$ 13 + % \$ (" N%T + 7%1 '* "KC31B" 5 / % ' 1\$ " . + 7 (' 11' - L; ") \$: '*: * - '%1'8"\$1"1B'" > * 313T\$ (" . \$%\$/ ' O '%1"61783' - "> + %, '*%T'E" . \$%TB' -1 '*E"R; i ; E"X7(D"GMM! ;"

"

> (+ - "N%T + 7%1 '* - "C31B" 5T\$8' O3T"93-T* '831\$13+% "KC31B" . \$1 - " 5 (S' -- + %L; ") \$: '*: * - '%1'8"\$1"1B'" > * 313T\$ (" . \$%\$/ ' O '%1"61783' - "> + %, '*%T'E" . \$%TB' -1 '*E"R; i ; E"X7(D"GMM! ;"

"

. \$%\$/3%/ "2' / 313 O \$TD"3% "qW((' / 313 O \$1'c" _ * / % \$ 3 ` \$ 13 + % -; ") \$: '*: * - '%1'8"\$1"1B'" W%S31'8" > + %, '*%T' "+ % "W%-131713+%-E" > + %, (3T1"\$%8" > B\$% / 'E" A + *1BC' -1 '*% "R%3S '*-31DE"NS\$%-1+%E"W2E" 9 'T' 04 '* "GMMM; ""

"

) * + 0 3 - 3% / " [\$3%4+C-0" 5 % "W%-131713+%(" 5 % \$ (D - 3 - "+, "93S '*-31D" . \$%\$/ ' O '%1"3% "A + *1B" 50 '*3T\$; ") \$: '*: * - '%1'8"\$1"1B'" 5 % % 7\$ (" . ' ' 13% / - "+, "1B'" 5T\$8' OD"+, . \$%\$/ ' O '%1E" U + * + % 1 + E" 57/7-1"GMMM; "

"

6\$S3% / "1B'"N\$*1B"W%T;0"UB'"2\$% / 7\$ / " "\$%8"2+ / 3T"+, . \$* & '1"93-T+7*- ' - "3% "N%S3*+ % O '%1\$ (" _ * / % \$ 3 ` \$ 13 + % - "KC31B"X' , "NS '* ' 1L; ") \$: '*: * - '%1'8"\$1"1B'" 5 % % 7\$ (" . ' ' 13% / - "+, "1B'" 5T\$8' OD"+, . \$%\$/ ' O '%1E"U + * + % 1 + E" 57/7-1"GMMM; "

"

> \$ - 13% / "1B'"A\$13S' "674h'T10"N1B%+ / *\$: B3T") * \$T13T' "\$%8"1B'"K ['L) * + 87T13+ % "+, "93,, '*%T' " KC31B" 5%-B70\$%) *\$-\$8L;") \$: '*: * - '%1'8"\$1"1B'" 5 % % 7\$ (" > + %, '*%T' "+, "Nd _6"KN7*+: ' "\$% d*+7: "+ % _ * / % \$ 3 ` \$ 13 + % " 61783' -LE"Y' (-3% & 3E"X7(D"GMMM; "

"

A\$13S' ") (\$T' - "3% _ * / % \$ 3 ` \$ 13 + % \$ ("6: \$T' - 0"N1B%+ / *\$: B3T" i % + C('8 / " "\$%8"1B'" [' : * + 87T13+ % "+, "93,, '*%T'; ") \$: '*: * - '%1'8"\$1"1B'" > * + - - + \$8 - "3% " > 7 (17*\$ ("61783' - "W%1 '*% \$ 13 + % \$ (" > + %, '*%T'E" = 3* O3% / B\$ O'E"R%31'8" i 3% / 8+ O E"X7% " "GMMM; "

"

N1B%+ / *\$: B3T" g 7' - 13+ % - "\$%8"1B'" g 7' - 13+ % "+, "N1B%+ / *\$: BD0"X+7*% 'D3% / ", * + O . '1B+8"1+ " U*\$8313+ % "3% "\$) (7*\$ (3-13T" b + * (8"KC31B" 5%-B70\$%) *\$-\$8L;") \$: '*: * - '%1'8"\$1"1B'" 5 % % 7\$ (" . ' ' 13% / - "+, "1B'" 5T\$8' OD"+, . \$%\$/ ' O '%1E" > B3T\$ / +E" ! \ \ \ ;"

"

UB'" [', ('T13+ % "+, "W%-131713+ % \$ (" . D1B - "3% "1B'" 61*7T17*3% / "+, "\$"A\$13+ % \$ (" . '83T\$ (" [' - '\$*TB" W%313\$13S' "KC31B"X7831B" = 3*8 - ' (" < " b 3(, *'8"# '*4'L; ") \$: '*: * - '%1'8"\$1"1B'" 5 % % 7\$ (" . ' ' 13% / - "+, "1B'" 5T\$8' OD"+, . \$%\$/ ' O '%1E" > B3T\$ / +E" ! \ \ \ ;"

"

"

UB "A\$13S' -"\$*' " ['-1(' --0"U\$&3% / "234 '*13' -"C31B">*313T\$("N

"

UB''6D04+(3-0"+," b +*>+ 0 :71 '*3`\$13+%;")\$: '*:*' - '%1'8"\$1"1B'" 5 %7\$(" . ' '13%/-"+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"2\$-"Z' /\$-E"! \ \G;"

"

^*+ 0" . '(13%/)+1"1+6\$(\$8"=+C(0" . \$%\$/3%/">7(17*\$("W8' %1313' -"\$-"1B'" b \$((->+ 0 "' U704(3%/"9+C%;")\$: '*:*' - '%1'8"\$1" 5 %7\$(" . ' '13%/-"+,"1B'" _=U>"K_*/%3`\$13+%\$(" = 'BSS3+*U'\$TB3%/">+%, '* '%T'LE">\$(/\$*DE">\$%\$8\$E"! \ \G;"

"

UB''W8' +(+/D"+,")*+, '--3+%\$(3- 0"\$%8"1B'"61*7T17*3%/"+" , _*/%3`\$13+%\$(" ['\$(31D0' 5 %" W%1 '*:*' 13S'"6178D"+," b +*>+ 0 :71 '*3`\$13+% "KC31B' 5 %-B70\$%) *\$-\$8L;")\$: '*:*' - '%1'8"\$1" UB'" 5 %7\$(" . ' '13%/"+" ,1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E" . 3\$ 03=" '\$TBE"! \ \!;"

"

UB''_4317\$*D"Nf '*T3- '0"23%&3%/"W8' \$-"+" ,1B'"rd++8"23,'c"C31B">\$*' '*')(\$%3%/" ;)"\$: '*:*' - '%1'8"\$1"1B'" 5 %7\$(" . ' '13%/"+" ,1B'" _=U>"K_*/%3`\$13+%\$("= 'BSS3+*U'\$TB3%/" >+%, '* '%T'LE"='((3%/B\$ 0E" b 5 E"! \ \!;"

"

9' ,3%3%/"U'TB%+(+/3T\$(U*\$%- ,+* 0 \$13+% -0" [\$13+%\$("\$%8" [+0 \$%13T">+%-1*7T13+% -"+," _*/%3`\$13+%\$(" ['\$(313' -"\$-" . +8' -"+," 5 TT+0 0 +8\$13+%;")\$: '*:*' - '%1'8"\$1"6>_6" K61\$%83%/">+%, '* '%T'"+% _*/%3`\$13+%\$("6D04+(3- 0LE"6\$\$4*7T&' %E" d '* 0 \$%DE"! \ \M;"

"

Z+3T' -",+* 0"1B'"N('T1*+%3T"6B\$8+C0" b +0 '%c-"Nf: '*3' %T' -"C31B"1B'">+ 0 :71 '*3`\$13+%"+," b B31'I>+(((\$* b +*>)")\$: '*:*' - '%1'8"\$1"1B'" 5 %7\$(" . ' '13%/"+" ,1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"6\$%^*\$%T3-T+E"! \ \M;"

"

_,")D*\$ 038-E"2\$88 '*-"\$%8" . \$`'-0"W%1 '*:*' 13%/" _*/%3`\$13+%\$(")+*1*31-"3%"1B'">(\$--*++ 0" KC31B" . 3TB\$'(">\$S\$%7/BL;")\$: '*:*' - '%1'8"\$1"1B'" 5 %7\$(" . ' '13%/"+" , _=U>" K_*/%3`\$13+%\$("= 'BSS3+*U'\$TB3%/">+%, '* '%T'LE">+(7043\$E" . 3--+7*3E"! \ ? \ ;;"

"

QQ

RESEARCH WORKSHOPS AND PANELS

"

)\$%'(3-1E"6T*' '%3%/"\$%8"93-T7--3+%"+,"^3(OE"RTUVE"US%/" . 7- '70E' 5 :*3("GM!];"

"

_*/%3` '\$%8") '* - '%1' *E)" *+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+: E"j>*313T\$("K ['L" >+%-38' *\$13+% -0" . \$: :3%/"\$%8"N%/\$/3%/"C31B"1B'" ,3'(8"+,"> . 6;" 5 %7\$(" . ' '13%/-"+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"Z\$%T+7S' *E" 57/7-1"GM!@;"

"

_*/%3` '\$%8") '* - '%1' *E)"\$%' ("+%j b B31'"3- "5 (-+"\$>+(+*0"W8' %131D"\$%8") *3S3(' / ' "3%"\$" q)+-II [\$T3\$(c"R;6;5;E"6&380 +*'">+((/ 'E" _T1+4' *GM!G;"

"

) '* - '%1' *E)" *+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+: E"qW 0\$/3%3%/"_1B' *C3- '0")+-1T+(+3\$(" >*313m7'"\$%8"1B'"6' \$*TB",+* 5(1' *%13S' '^717*' -;c'6: +% -+* '8"4N0 . 2(')873">*313T\$("0 \$%\$/' 0 '%1 61783' -"\$%8"1B'" _*/%3`\$13+% -"\$%8"A\$17*\$("N%S3*+ 0 '%1\$("93S3-3+% -E" 5T\$8' 0D"+," 0 \$%\$/' 0 '%1' 5 %7\$(" . ' '13%/-E"6\$%" 5 %1+%3+E" 57/7-1"GM! !;"

"

"

>B\$3*\$%8`_*/\$%3`' *E")*+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+:E"q>+*:*\$1''6+T3\$(
['-: +%-343(31D"C31B"\$>*313T\$("N8/';c"6: +%--+* '8"4D">*313T\$(" . \$%\$/' 0 '%1"61783' -"\$%8"
6+T3\$("3--7' -"3%" . \$%\$/' 0 '%1"93S3-3+% -E"5T\$8' OD"+, " . \$%\$/' 0 '%1"5%%7\$(" . ' '13% /-E"
. +%1*\$\$(E" 57/7-1"GMM!M;"

"

)\$%'(3-IE"jW0 O3/*\$13+% "3%"IB''R;6;0"W0 : (3T\$13+%- ,+*" _7*"^717*'k;"NO :3*' "61\$1'">+((/ ' E"
6\$*\$1+/\$6: *3% /-E"A'C" F+*& ;"9 'T' 04 '*GMM!M;"

)\$%'(3-IE")*+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+:E"W%1' **+/\$13%/">*313T\$(" . \$%\$/' 0 '%1"
61783' -;6: +%--+* '8"4D"IB" _*/\$%3`\$13+%\$("9 'S' (+: 0 '%1"<">*313T\$(" . \$%\$/' 0 '%1"61783' -"
93S3-3+% -E"5T\$8' OD"+, " . \$%\$/' 0 '%1"5%%7\$(" . ' '13% /-E">B3T\$/+E" 57/7-1"GMM\;"

"

_*/\$%3` '*"\$%8")*'- '%1' *E")*+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+:E"q2++&3%/" ,+*"
KR%L>+0 0 +%" d*+7%80"" g7\$%131\$13S "\$%8" g7\$(31\$13S "'5 : : *+TB' -"1+6178D3%/" b +*&:(\$T'
93S '*-31D;c"" b +*&-B+: "-: +%--+* '8"4D"IB">*313T\$(" . \$%\$/' 0 '%1"61783' -"\$%8" d '%8' *' <"
93S '*-31D"3%" _*/\$%3` \$13+%- "93S3-3+% -"+, "IB" "5T\$8' OD"+, " . \$%\$/' 0 '%1E")B3(\$8' (: B3\$E"
57/7-1"GMM];"

"

)\$%'(3-IE")*+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+:0">*313T\$("N%T+7%1' *-0"2\$4+*) *+T' --E"
61*7T17*\$13+% "\$%8") + -1T+(+3\$3(3-0 "3%"93\$(+/7'; "5T\$8' OD"+, " . \$%\$/' 0 '%1"5%%7\$("
. ' '13% /-E"Y+%(7(7E"Y\$C\$33E" 57/7-1"GMM@;"

"

W%S31'8")*'- '%1' *E" d9 _"Kd '%8' *' <"93S '*-31D"3%" _*/\$%3`\$13+%-L"9+T1+*\$(">+%-+*1370;"
5%%7\$(" . ' '13% /-+,"IB" "5T\$8' OD"+, " . \$%\$/' 0 '%1E"Y+%(7(7E"Y\$C\$33E" 57/7-1"GMM@;"

"

W%S31'8")*'- '%1' *E"> . 6"K>*313T\$(" . \$%\$/' 0 '%1"61783' -L"9+T1+*\$(" b +*&-B+:0"93-T7--"D+7*"
9+T1+*\$(" b +*&*\$%8">* ' '*C31B"2 '\$83%/"> . 6"6TB+(\$*-; "5T\$8' OD"+, " . \$%\$/' 0 '%1"
5%%7\$(" . ' '13% /-E"Y+%(7(7E"Y\$C\$33E" 57/7-1"GMM@;""

"

>+I_*/\$%3` '*"\$%8">+I^\$T3(31\$1+*"+, "9+T1+*\$(" b +*&-B+: "+%" _*/\$%3`\$13+% "UB'+*D;"
6: +%--+* '8"4D" i 5U5X5",+*"9+T1+*\$("6178' %1-"3%" . \$%\$/' 0 '%1E"2\$: : ' '%*\$%1\$"
R%3S '*-31D+,"U'TB%+(+/DE"2\$: : ' '%*\$%1\$E'X7%' "HIX7%' " !ME"GMM@;"

"

_*/\$%3` '*"\$%8")*'- '%1' *E")*+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+:E"q [\$3-3%/"Z+3T' -0"
67-1\$3%3%/">*313m7'"3%" _*/\$%3`\$13+%" ['- '\$*TBc;" b +*&-B+: "-: +%--+* '8"4D"IB" ['- '\$*TB"
. 'IB+8-"\$%8">*313T\$(" . \$%\$/' 0 '%1"61783' -"93S3-3+% -"+,"IB" "5T\$8' OD"+, " . \$%\$/' 0 '%1E"
6'\$11('E" 57/7-1"GMMJ;"

"

^\$T3(31\$1+*\$%8")*'- '%1' *E")*+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+:E"q>*\$,13%/" g7\$(31\$13S "'
^3'(8C+*&c;" b +*&-B+: "-: +%--+* '8"4D"IB">*313T\$(" . \$%\$/' 0 '%1"61783' -E" _*/\$%3`\$13+%"
UB'+*D'\$%8" ['- '\$*TB" . 'IB+8-"93S3-3+% -"\$1"IB" "5%%7\$(" . ' '13% /-+,"IB" "5T\$8' OD"+,
. \$%\$/' 0 '%1E"6'\$11('E" 57/7-1"GMMJ;""

"

>+I>B\$3*" <"^\$T3(31\$1+*E")*+, '--3+%\$("9 'S' (+: 0 '%1" b +*&-B+:E"q^+((+C3%/"IB">*313T\$("
U7*%0" . \$1'*\$3(3-0E"9 'T+%-1*7T13+%" <"W%-131713+%\$("NIB%+/*\$: BDc;" ['- '\$*TB" . 'IB+8-"

9 3S3-3+%E" 5%%7\$(" . ' '13%/-"+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E" b \$-B3%/1+%E" 9;>;E" 57/7-1" GMM!;"

>B\$3* <" _*/\$%3` '*E")*+, '-3+%\$("9 'S'(+: 0 '%1" b +* &-B+:E"q . ' '13%/1B'">B\$((%/ '-"+,"1B'" A 'C"U30 '-0">*313T\$("5 : :+*\$TB' -",+*U'\$TB3%/61*\$1' /D"\$%8" . \$%\$/' 0 '%1;c" . \$%\$/' 0 '%1" N87T\$13+% 93S3-3+%E" 5%%7\$(" . ' '13%/-"+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"U+*+%1+E" 57/7-1E" GMMM;"

>+ITB\$3*\$%8" ^T3(31\$1+*E")*+, '-3+%\$("9 'S'(+: 0 '%1" b +* &-B+:E"jW%1 '*: '*13S'" _*/\$%3` \$13+%\$ ("[' - '\$*TB"3%1B'"A\$**\$13S'" d '%* -kE" [' - '\$*TB" . '1B+8-" 93S3-3+%E" 5%%7\$(" . ' '13%/-"+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"U+*+%1+E" 57/7-1"GMMM;"

b +* &-B+: "_*/\$%3` '*E"jW%1 '*: '*13%/1B'"W%1 '*: '*13S' '0'93,, '*%1" d '%* -"+," g 7\$(31\$13S'" [' - '\$*TB;)" *'I>+%, '*%T'" b +* &-B+:E" [' - '\$*TB" . '1B+8-" 93S3-3+%E" 5%%7\$(" . ' '13%/-"+," 1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"6\$% "93' /+E"!\ \?;"

^T3(31\$1+*E"j=73(83%/ ">+(('T13S'" [' - '\$*TB"61*\$0 -k;)" *'I>+%, '*%T'" b +* &-B+:E" b +0 '% 3%" . \$%\$/' 0 '%1" 93S3-3+%E" 5%%7\$(" . ' '13%/-"+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E">3%T3%%\$113E" !\ \H;"

) *' - '%1 '*E"jW-"Z\$(7' I^* "'U'\$TB3%/1B'" b \$-1' (\$%8"+," 5T\$8' 03T"N%1 '*: *3- 'ek" 9+T1+*\$ (" >+%-+*137 0E" b '-1' *% "5T\$8' 0D"+," . \$%\$/' 0 '%1" . ' '13%/-E"=\$%, ,E">%%\$8E"!\ \H;"

)\$%' (3-1E"jR%3,D3%/" _*/\$%3` \$13+% "UB'+*D0)"\$*\$83/ 0E)"\$*\$83/ 0- "+*)," , , '*83/ 0ek" 9' 4\$1'" - : +%-+* '8"4D"1B'" =7-3% ' --")+(3TDE" _*/\$%3` \$13+% "UB'+*D"\$%8" . \$%\$/' *3\$(">+/%313+% 93S3-3+%E" 5%%7\$(" . ' '13%/ "+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"Z\$%T+7S '*E"!\ \@;"

)\$%' (3-1E"jUB'" . 7(13T7(17*\$(">(\$--*++ 0k;)" *'I>+%, '*%T'" b +* &-B+:E" _*/\$%3` \$13+%\$ (" = 'B\$S3+*" 93S3-3+%E" 5%%7\$(" . ' '13%/ "+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"9\$ ((\$-E"!\ \a;"

6D0 : +-370 ">B\$3*E"j_*/\$%3` \$13+%\$ ("U'TB+(+/3' -"%8"1B'"U' f17*' "+," b +* &0">B\$/ 3%/ >+%,3/7*\$13+% -"+,)+C '*E" i %+C('8/' "\$%8" . '\$%3%/ "3%)+-1IW\$87-1*3\$ ("W"-131713+% -;k" 5%%7\$(" . ' '13%/ "+,"1B'" 5T\$8' 0D"+," . \$%\$/' 0 '%1E"9\$ ((\$-E"!\ \a;"

)\$%' (3-1E"jUB'"A' f1' d '% '*\$13+%0" b B+" b 3(("U'\$TB"UB' 0ek" 5%%7\$(" . ' '13%/ "+,"1B'"NS-1' *% " 5T\$8' 0D"+," . \$%\$/' 0 '%1E" 5(4\$DE"A' C" F+* &E"!\ \a;"

QQ

RESEARCH IN PROGRESS

_*/\$%3` \$13+%\$ (" _884\$((- "\$%8" _71(\$C-0" . \$%\$/' 3%/ "W((" /313 0 \$TD"7%8' *j 23\$43(313' -"+," 9 'S3\$T' k"KC31B' 5% -B7 0\$%) *\$-\$8"\$%8" . \$7* ' "% 6T7((DL;"

!#<&#/#,&0 ; W0)D#''6)! 5 ; <, . X&5' 3)/#1.N) = #''6. %0)#' :): . '%&#E)K=++&" 0\$%7-T*3:1"3%" :*': \$*\$13+%;"

"
"

M&C. "#,)Y?"@&I%&5 '03)H')J'0%&+%&5 '#,)H'#,EO&0)5\$)!+,%+"#,)!5 '\$,&I%0)&')H; . "&I#')M&C. "#,) H"%0)!5,, (.0"K=++&"O\$%7-T*3:l"7%8 '*':*\$%\$13+%L"

"

" QQQ"

RESEARCH GRANIS

"

6&380+*"6700 '*">+((\$4+*\$13+% "d*\$%1"Ks !MMML;"GMGM;">*\$*3'8"\$%8"9 '(3S '* '80' . \$: :3%/" IB'">+%1+7*-"+, "d(+4\$ >+00 '*T3\$("67**+/\$1" . +1B '*B++8;"

6&380+*"6700 '*">+((\$4+*\$13+% "d*\$%1"Ks !EHMML;"GM!@"^\$31B"3%"IB" b +*&:(S'T'0 6'T7(\$*3-0 "3%"IB"NO +D0 '%1"6'T1+*-"+, "6C'8'%E"9 '%0\$*&E" ^*\$%T'E"W%83"\$%8"IB" R;6;5;"

"

X\$% "b ((\$%8 '*^+7%8\$13+% "+, "1B"="\$%&"+, ">+00 '*T'"+, "6C'8'%"KB#':.,0C#'6. 'LE" 6C'8'%"Ks !?HEMMLL"j 93S '*-31D")*+, '-3+%(-"3%"IB'"6C'83-B"NO :(+D0 '%1"6'T1+*kE" . \$*TB" GM!MIGM!@;"

"

6&380+*" ">+((('/ 'E")*+h'T1">+0 :('13+% "d*\$%1"Ks @MMML"X7% 'GMMaE"1+"T+0 :('1' "4++&" 0\$%7-T*3:lE"! "#\$%&' () * + #, & % # % & - .) / . 0 . # " 12 ; "

"

UB "6C'83-B" g7\$(31D"+, "b +*&(, " ^+7%8\$13+% "?Y5'06 '&' (0)H"C. %0, &-0LE"61+T&B+(O'E" 6C'8'%"KsGaMEMMML"j . \$%\$/3%/"93S '*-31D"\$-%" _/\$%3`\$13+%\$")*+T'--kE"GMM!IGMM@;"

"

UB ""="\$%&"+, "6C'8'%"c-"U'*T' %1'%\$D"^+7%8\$13+% "K/&60C#'6. ')0+C&, . +; 0\$+ ' :LE"6C'8'%" KsGJMEMMML"j A\$**\$13S' "-+, "2' /3130 \$TD"3%"IB" i 3((3%/ "W%87-1*3' -0"UB" 5Tm73-313+"+, " 6+T3\$("^31% "--\$0+%/ "IB" "d7%E"U+4\$TT+E"5*0\$0 '%1E"= ' ', "\$%8" ^7*"W%87-1*3' -E" . \$*TB" GMMMIGMMJ;"

"

['- '\$*TB"W%-13171"3%"27%8">%#%"C&: " # (Ks @MMML" _ * / % 3 ` \$ 13 + % \$ (" 2 ' / 313 0 \$ TD " \$ - " \$) * + T ' -- " 3 % " j W ((' / 313 0 \$ I ' k " W % 87 - 1 * 3 ' - 0 " 61783 ' - " + , " 1 B " " 1 + 4 \$ TT + E " / 7 % E " C ' \$: + % - " \$ % 8 " , 7 * " 3 % 87 - 1 * 3 ' - ; "

"

5(4'*1\$N% '*/D">+*+*\$13+% " ['- '\$*TB'^' ((+C-B3: "d*\$%1"Ks !MEMMML"j">+007%3T\$13+% "\$%8" >7(17*"3%"IB" "A'1C+*&'8" _/\$%3`\$13+%kE" . \$D"! \ \ H ; "

"

6+T3\$("6T3' %T' - "\$%8"Y70\$%313' -" ['- '\$*TB">+7T3("K66Y [>L"+, ">\$%\$8\$E" _TT\$-3+%\$(">+%, '* '%T" "d*\$%1"KsaMMML"j=* '\$&1B*+7/B-E"=* '\$&I3- "\$%8"=* '\$&I+71-0" d '%8' "*" . ' '1-"1B" 5T\$8' ODE" ! \ \ @ ; "

"

6+T3\$("6T3' %T' - "\$%8"Y70\$%313' -" ['- '\$*TB">+7T3("K66Y [>L"+, ">\$%\$8\$E" d*\$%1"Ks @MEMMML" j 93S '*-31D"\$%8"93-T*303%\$13+% "3%"IB" "A+*1B"50 '*3T\$% " b +*&:(S'T'kE" ! \ \ @ I ! \ \ ? ; "

"

5(4'*1\$N% '*/D">+*+*\$13+% " ['- '\$*TB'^' ((+C-B3: "d*\$%1"Ks !MEMMML"j . \$%\$/3%/"IB" " . 7(13T7(17*\$(" _ * / % 3 ` \$ 13 + % k E " X \$ % 7 \$ * D " ! \ \ @ ; "

"
"

5(4*'1\$N% '* /D">+*:+*\$13+%" ['- '\$*TB"^((+C-B3:"d*\$%1"Ks !MEMMLE"jR%8 '*-1\$%83% / "
NO :(+D' "' ['-3-1\$T'kE" . \$D' ! \ \ a;"

""
QQ

IN MEDGESULECRES & SCHOLARL PRESENTATIONS

"
UB' " _ "%9++*0"WT(7-3S'Nft'((%'T"\$%8"31->B\$(('% / '-;" i 'D% ' " 88* '--"1+"1B' "
WO:(' " %'1'93S' *-D">+% *'%T';"61+T&B+(OE"6':1'04'*"GHE"GM \ ;

^*\$T1' '8" [\$3%4+C-0"W8' %1D">+% ,(3T1-"3%"234'*\$("N%T(SS' -;"W%S' '8'-D0 :+-37OE"
61+T&B+(O"6TB++(+,"NT++ +O3T-E"61+T&B+(OE"6':1'04'*"GM! \ ;"

>\$:31\$(3-0c-"9\$*E">+0:('f3+%0"UB'+*3`3%/" [\$T' E' . \$*E' 1-"\$8"8"W' %13ID;"W%S31'8" ['- '\$*TB"
6' 03%\$*E"6TB++(+," =7-3%'--"\$8"NT+%+O3T-E"27%8"R%3S' *-31DE"6C'8' %E"6':1'04'*"GM! \ ;"

A' C"93S' *-31D"U' %-3+% -"3%"234'*\$("N%T(SS' -;" i 'D%+1' "588* '--"1+"1UB' "93S' *-31D"\$%8"
W%-131713+%\$(">B\$% / ' " b +*E-B+ : ; "X+3%1(D"- : +%-+* '8"4D"1B' '9' -\$71' (-" ^\$T7(1D"+,"
. \$%\$ / ' 0' %1E" . Td3(("R%3S' *-31D"\$%8"1B' ">' %1' *",+*Y70\$%" [3/B1-"\$8"2' /\$(") (7*\$3-0E"
. Td3((" ^\$T7(1D"+,"2\$CE" . +%1* '\$(E"X7%' "?"E"GM!H;"

=(+C3%/"60+&'0"UB' " . \$%\$ / ' 0' %1"+," . +*\$("W((" /3130\$TD"3%"1B' "R;6;"U+4\$TT+"W%87-1*D;"
W%S31'8" ['- '\$*TB"6' 03%\$*E"W%83\$%"W%-13171' "+," . \$%\$ / ' 0' %1E"5B0'8\$4\$8E"W%83\$E"XS%7\$*D"
GM!H;"

UB'^\$1' "+,">*313T\$(. \$%\$ / ' 0' %1"61783' -"3%"\$ d (+4\$(3`'8" b +*(80' i 'D%+1' "588* '--"1+"1B' "
_*/%3` \$13+%"UB'+*D"93S3-3+%+", 565 >"K803%3-1*\$13S' "6T3' %T' -"5 --+T3\$13+%" +," >\$%\$8\$LE"
Y\$(3,\$fE"X7%' "GM!@;"

Z'3('8" [' 0\$*E-0"W8' %13ID">+%1' -1-E" d '%8' *"9D%\$03T-"\$8"1B' "93-T+7*-' "+" ,1B' "W-(\$03T"
Y' \$8-T\$, "3%"1B' "6T\$%83%\$S3\$%" b +*E: (\$T'; _ %1\$*3+"W%-13171' "+,"61783' -"3%"N87T\$13+%"
K_ W6NLE"R%3S' *-31D"+,"U+*+%1+E"5 : *3("GM!@;"

W%-131713+%\$("N%1* ' : *'%7*-B3: "\$8" d '%8' *"W8' %1313' -"3%"1B' "R;6;"U+4\$TT+"W%87-1*DE" ! \ GMI
! \ H@E"6TB++(+," . \$%\$ / ' 0' %1E"R%3S' *-31D"+," . \$--TB7- '11-E" =+-1+%E"5 : *3("GM!H;"

. +*'50' *3T\$%"UBS%"5 : : ("')3'0"50' *3T\$c-"9'\$8(D" [+0\$%T'"C31B"= ' ;,"W%S31'8") ('%\$*D"
2'T17*' "1"1B' "5% %7\$(" . ' '13% / "+,"1B' "61\$%83%/" ">+%, '* '%T' "+%" . \$%\$ / ' 0' %1'\$%8"
_*/%3` \$13+%"\$ ("W%73*D;" b \$-B3%/1+%E"9 ; > ;E"5 : *3("GM!J;"

) '*03--3+% "1+" b \$%8' *0"US&3% / "W%1' *83-T3: (3%\$*D"6' *3+7-(D"3%" _*/%3` \$13+%"\$(['- '\$*TB;"
^'\$17*'8"6: '\$&'*"1"1B' "i' "%6D0 : +-370" +%" =7-3%'--"\$8"1B' "234'*\$("5*1E" [+TB' -1' *"
W%-13171' "+,"U' TB%+(+ /DE" [+TB' -1' *E"AFE" . \$*TB"GM!J;"

"

"

^+((+C3%/"1B'"93-T+7*-'"+"1B'"Z'3("3%"1B'"6T\$%83%SS3\$%"NO:(+DO '%1"6'T1+*;"6:*3%/"
['- '\$*TB"6' 0 3%\$*2'T17*'E"9':\$*10 '%1"+,">+0 0 7%3T\$13+%E"R%3S' *-31D"+,">+(+*\$8+E"
=+7(8' *E"5 : *3("GM!G"

"

>*3: : ('8" d3\$%10" 5 0 ' *3T\$%"9'T(3% '"3%"\$%"5 / '"+">+*:' +*\$1'"U\$&' +S' *;"R%3S' *-31D"+,"
. \$8*\$E-W%83\$E"X\$%7\$*D"GM!G;"

"

. 7(13I631'8"N1B%+/*\$:BD"\$%8"93-T+7*-'"5%\$(D-3-;"W%S31'8"6:' \$&' *"\$1") *'I>+%, '* '%T'"
b +*&-B+ :E"j . +S3%/" . '1B+8+(+/Dk"A\$13+%\$(">+0 0 7%3T\$13+% -"5 --+T3\$13+% "5 %%7\$("
. ' '13%/E" _ *(\$8+E" ^2E"A+S' 04' *GM!G;"

"

b +*&:(\$T'">7(17*' "\$%8"1B'"W-(\$03T"Y"\$8-T\$*, "3%"6C'83-B"\$%8"9\$%3-B" _ * /\$%3` \$13+%-;"
9'-\$71'(-" ^\$T7(1D"+," . \$%\$/ ' 0 '%1E" . Td3(("R%3S' *-31DE" . +%1*\$E"6' :1' 04' *GM!!;"

UB'"93-T+7*-'"+"1B'"W-(\$03T"Z'3("3%"6T\$%83%SS3\$;"^+7*1B'5 %%7\$("2'T17*' "\$1"> [N9"
K>'%1' *,"+* ['- '\$*TB"+%Nm7\$(31D"\$%8"93S' *-31DL" g7' '%' . \$*DE"R%3S' *-31D"+,"2+%8+%E"
A+S' 04' *GM!M;"

"

UB'"Z'3("3%"1B'" b +*&:(\$T';"2'T17*' "8'(3S' *' 8"\$-:"\$*1"+,"1B'"5 %%7\$("d' %8' * "<"W8' %131D"\$1"
1B'" b +*&:(\$T'"6' *3' -E" [\$84+7%8"R%3S' *-31D"+,"A3h0 'h' %E"UB'"A' 1B' *(\$8-E" _ T1+4' *"
GMM?;"

"

R%S'3(3%/"N7*+ : 'c-">3S3(3` '8" ^\$T'0" d' %8' *" ['(\$13+%-E"A' C"W0 03 / *\$%1-"\$%8"1B'"
93-T+7*-'"+"1B'"Z'3("3%"1B'"6T\$%83%SS3\$%" b +*&:(\$T';"Y*\$S\$*8"=7-3% '--"6TB++(c-"
93-13%/73-B'8" ['- '\$*TB"2'T17*'E"Y*\$S\$*8"R%3S' *-31DE" _ T1+4' *GM];"

"

UB'" b *313%/"+"1B'" b \$(("3-"3%"\$ "^+* '3 / %"2\$% /7\$ / ' ;"W%S31'8") ('%\$*D'588*' --"\$1"1B'"5 %%7\$("
. ' '13% / -"+,"1B'"51(\$%13T"6TB++(-"+,"=7-3% '--E" b +(,S3(("E"A+S\$)6T+13\$E">\$%\$8\$;"
6' :1' 04' *GM];"

"

R%1\$%/(3%/" . '1B+8+(+/3T\$("W%1' *T+% % 'T13+%-0"2+T\$("\$%8" d(+4\$("93(' 0 0 \$-"KC31B"

"
['-1+*3%/ " g 7\$(31D"1+" g 7\$(31\$13S " ['- '\$*TB;"W%S31 '8"2 'T17*' "\$1"IB'">+: '%B\$/ '%="7-3% ' --"
6TB++(E">+: '%B\$/ '%E"9 'T' 04 '*GMMa;"
"

W%-7*/ '%1"W 0 \$/3%3% /-0")+-1T+(+3\$(31D"\$%8" _*/%\$3`\$13+%\$(" 5%\$(D-3-"KC31B" 5%-B7 0 \$%"
) *\$-\$8L;"6C '83-B"6TB++(+,"NT+%+ 0 3T-"<="7-3% ' --" 5 8 0 3%3-1*\$13+% "KY 5 A i NAL E"
Y '(-3%&3E" . \$D"GMMa;"
"

9 ' -13%\$13+% "R%&+%C"0" A\$S3 /\$13% /"\$ [+71 "U+C\$*8" . \$%\$/3% / "9 3S '*-31D;"W%S31 '8") ('%\$*D"
2 'T17*' "\$1"IB'" 9%\$3-B"W%-13171 " "+,"Y7 0 \$%" [3/B1- " 5% %7\$(" 5 C\$*8"> '* ' 0 +%DE">+: '%B\$/ '%E"
. \$*TB"GMMa;"
"

. \$%\$/3% / "9 3S '*-31D"\$%8"IB'" 2+ /3T"+,"^\$-B3+%; "W%S31 '8" d7 '-1'2 'T17*' "\$1" _W6N"K_ %1\$*3+ "
W%-13171 " "+,"61783' -"3%"N87T\$13+%LE"R%3S '*-31D"+,"U+*+%1+E"^ 4*7\$*D"GMM !;"
"

= 'B3%8"IB'" =*3/B1" ^\$T' 0"N%1 '*3% / "IB'" 6B\$8+C" b +*(8"+," b +*&:(\$T'" 9 3S '*-31D;)" ('%\$*D"
\$88* ' --"\$1"IB'" " ! !B" A+*83T" . 3/ *\$13+% ">+%, '* '%T' E" d+IB' %47*/E"6C '8' %E" _T1+4 '* ! \ \ \ ;"
"

93(' 0 0 \$- "+," b +*&:(\$T'" 9 3S '*-31D;"W%S31 '8" ('T17*' E">+%; &. \$5"C+ ' : . %)Z#", &' (0, &-)512"
>#; #2#,,.)K> '%1 '*, +*="7-3% ' --"<")+ (3TD"61783' -LE"61+T&B+(OE" _T1+4 '* ! \ \ \ ;"
"

UB "U*\$%-(\$13+% "+,"W%-131713+%\$(" . D1B"3%1+"61*7T17*'; "W%S31 '8" ('T17*' E"6> _ [N"K61+T&B+(O "
> '%1 '*, +* _*/\$3`\$13+%" ['- '\$*TBLE"61+T&B+(OE" ^ 4*7\$*D" ! \ \ \ ;"
"

6: '\$&3% / "\$4+71" ['-3-1\$%T' 0" [+713% "' _ : : + -313+% "7%8 '*">+%8313+% - "+,"^(' f34(" >\$: 31\$(3- 0 ;"
W%S31 '8" ('T17*' E" ^\$T7(1 "8' -"-T3' %T' -"8'"(c\$8 0 3%3-1*\$13+%E"2\$\$\$("R%3S '*-31DE" g 7'4 'T">31DE"
X\$%7\$*D" ! \ \ \ ;"
"

93-T+7*-' " 5%\$(D-3-"\$%8" b +*&:(\$T'" ['-3-1\$%T'; "W%S31 '8"2 'T17*' E"9' : \$*10 '%1"+,"
W%1 '*%\$13+%\$(=7-3% ' --"\$%8"IB'"N%S3*+% 0 '%1E" [71/ '*-"R%3S '*-31DE" A+S' 04 '* ! \ \ \ ?;"
"

61* '1TB3% / "IB'"W*+% ">\$ / '0"NO : (+D' "' ['-3-1\$%T'"1+"U' TB%+(+ /3T\$(">B\$% / ' ; "W%S31 '8"
2 'T17*' E"9' : \$*10 '%1"+," 5 TT+7%13% / "\$%8" . W6E" ^\$T7(1D"+," =7-3% ' --E"R%3S '*-31D"+," 5 (4 '*1\$E"
N80 +%1+%E" A+S' 04 '* ! \ \ \ ;"
"

['-3-1\$%T' "\$1"IB'" b +*&:(\$T'; "d7 '-1'2 'T17*' E"6TB++(+,"NT+%+ 0 3T-"\$%8">+ 0 0 '*T3\$("2\$CE"
d+1'4+* / "R%3S '*-31DE"6C '8' %E" 5 : *3(" ! \ \ \ ;"
"

R%8 '*-1\$%83% / " [+713% "' ['-3-1\$%T' "\$1"IB'" b +*&:(\$T'; "23%&+ : 3% / "R%3S '*-31DE"23%&+ : 3% / E"
6C '8' %E" 5 : *3(" ! \ \ \ ;"
"

>B\$% /3% / "Y [. _ *3 '%1\$13+% -"3%"\$")+-1I" ^+*83-1" b +*(8;"Y '(-3%&3">B\$ 0 4 '*"+,">+ 0 0 '*T' E"
Y '(-3%&3E" ^3%(\$%8E" ^ 4*7\$*D" ! \ \ \ ;"
"

6\$, 'ID"2' --+%" ^*+ 0 "W%87-1*3\$("93-\$-1 '*-0" [7(" "Z3+(\$13+% "3%">+ 0 : (' f"\$%8"23% '\$*"
_*/%\$3`\$13+% -;"93-13% /73-B' 8"2 'T17*' E"5 (4 '*1\$ _TT7: \$13+%\$("Y '\$(1B"\$%8"6\$, 'ID"6 '*S3T' -"
>+%, '* '%T' E">\$(/ \$*DE">\$%8\$E" _T1+4 '* ! \ \ \ H;"
"

"

"

N('T1+%3T" . ' '13% / -"\$%8" _ * / %3` \$13+%("9D%\$O3T-; "9 ' : \$*1O ' %1"+,) -DTB+(+ / DE" R%3S ' *-31D"+, " [3TB O +%8E"Z3* / 3%3SE"X\$7\$*D" ! \ \ H;"

"

. \$%\$ / 3% / "IB" = *\$3%D" . + % -1 ' *0" > + O : 71 ' * - "\$%8"U'TB%+(+ / 3T\$("5 %1B*+ : + O +* : B3- O "3%" _ * / %3` \$13+%-; "^\$T7(1D"+, "5803%3-1*\$13S "'6T3' %T' -E" F+*&"R%3S ' *-31DE"U+*+%1+E" . \$D" ! \ \ @;"

"

W-"1B'" b '(T+O ' " . \$1", +* b +O ' %" . \$%\$ / ' * -" b '\$*3% / "UB3%e"UB'"V' *+f" b +O ' %" , +* NfT'(('%T'"A'1C+*&E">\$(/\$*DE" _T1+4' *" ! \ \ a;"

"

" " QQQ

"

ACADEMIC HONORS AND AWARDS

"

N8C3%" . +- ('D"2 'T17* ' -B3 : E"GM!] ; "UB" . +- ('D"2 'T17* ' -B3 : "3- "6&380 +* "' > + ((/ 'c- " B3 / B' -1" \$T\$8' O3T" B+ +* / 3S ' "% % %7\$((D"1+ "\$, \$T7(1D"3%" * "T+ / %313+%" +, "IB' 3*" +71-1\$%83% / " -TB+(\$* (D" \$TB3' S' O ' %1- ; "

"

93-13% / 73-B' 8" Z3-313% / "^ ' ((+CE" > ' %1' *", +*") 74(3T"W%1 ' * ' -1" 5TT+7%13% / E"R%3S ' *-31D"+, " >\$(/\$*DE" . \$D"GMMH;"

"

NO' *\$(8" . \$%\$ / ' O ' %1" ['S3' C- "5C\$*8", +* _71-1\$%83% / "NO : 3*3T\$(") \$: ' *E"GMMa;"

"

23-1' 8"3%" 425W0) 425)& ')%2.) = # ' # (. ; . ' % " > I & . ' I . 0"KGMMML; "2+ %8+ %0" N8C\$*8" N(/\$* ; "

"

W%1 ' *%\$13+%(" b +* &3% / " . ' 04' *E"27%8" [' - ' \$*TB"W%-13171'E"27%8E"6C' 8' %E" ! \ \ ; "

"

"
Z;2;"NIB3*\$h" 5 C\$*8",+*")*+,3T3 '%TD"3%"N%/(3-BE"R%3S '*-31D"+," . \$8*\$-E"! \]J;"

"
" QQQ

CONFERENCE COORDINATION

_*/\$%3` '*"\$%8")\$*13T3:\$%1E"UB'"6\$%8C3TB"W%1 '*83-T3:(3%\$*D" . \$&3% /"\$93, '*'%T"
b+*&-B+:E"6\$%8C3TBE" . \$--\$TB7' '11-E"X7% '"GM!a;"6: +%--+* '8"4D"\$/*\$%1",*+O"1B'"=\$%&"+"
>+O O '*T'"+"6C'8'%;"

>+I>+%S'%+*E" . 7(13%\$13+%(-"R%3' "d(+4\$(3` \$13+"61* '\$OE">*313T\$(" . \$\$\$/ 'O '%1"61783' -"
>+%, '* '%T'E">\$O4*38/ "'R%3S '*- DE"X7(D"GMM@;"

>+I>+%S'%+*E")+ -IT+(+%3\$(3- O "61* '\$OE">*313T\$(" . \$\$\$/ 'O '%1"61783' -">+%, '* '%T'E"
2\$%T\$-1 '*E"X7(D"GMMJ;"

>+I>+%S'%+*E"_ : '% "U*\$T&"6' --3+%E"!H^{IB} 5 % %7\$(" . ' '13% /"+,"Nd_6"KN7*+: '\$%"d*+7: ",+*
_*/\$%3` \$13+%"61783' -LE"Y' (-3%&3E"X7(D"GMMM;"

>+%S'%+*E"d(+

"

d. ' : . "N) 4 5"6)#' :)F"(# '&G#%&5 '"

)

F"(# '&G#%&5 ')>%+ : &. 0)

"

F"(# '&G#%&5 ')

)

>1# ' : & ' #-&# ')05+ "' # ,)5\$) = #' # (. ; . '%)

)

H1# : . ; E)5\$) = #' # (. ; . '%)05+ "' # ,)

)

H1# : . ; E)5\$) = #' # (. ; . '%) / . -&. Q)

)

= J >) * + # % . " , E)

)

B + ; # ') / . , # % & 5 ' 0)

)

F"(# '&G#%&5 ') > 1 &. ' 1 .)

)

H : ; & ' & 0 % '# % & - .) > 1 &. ' 1 .) * + # % . " , E)

)

J '\$ 5 " ; # % & 5 ') 9 . 12 ' 5 , 5 (E) # ' :) 7 . 5 < , .)

)

05+ "' # ,)5\$) = #' # (. ; . '%) K : + 1 # % & 5 ')

)

B. A C

_ * / \$ % 3 ` \$ 13 + % " \$ % 8 " . \$ % \$ / ' 0 ' % 1 " UB ' + * D " 9 3 S 3 - 3 + % E " 5 T \$ 8 ' 0 D " + , " . \$ % \$ / ' 0 ' % 1 "

"

d ' % 8 " * " \$ % 8 " 9 3 S ' * - 3 1 D " 3 % " _ * / \$ % 3 ` \$ 13 + % - " 9 3 S 3 - 3 + % E " 5 T \$ 8 ' 0 D " + , " . \$ % \$ / ' 0 ' % 1 "

"

[' - '\$ * TB " . ' 1 B + 8 - " 9 3 S 3 - 3 + % E " 5 T \$ 8 ' 0 D " + , " . \$ % \$ / ' 0 ' % 1 "

"

N \$ - 1 ' * % " 5 T \$ 8 ' 0 D " + , " . \$ % \$ / ' 0 ' % 1 " 5 % % 7 \$ (" > + % , ' * ' % T ' "

"

C. R G

6 + T 3 \$ (" 6 T 3 ' % T ' - " \$ % 8 " Y 7 0 \$ % 3 1 3 ' - " [' - '\$ * TB " > + 7 % T 3 (" K 6 6 Y [> L " + , " > \$ % \$ 8 \$ "

"

A \$ 13 + % \$ (" 6 T 3 ' % T ' " ^ + 7 % 8 \$ 13 + % " K A 6 ^ L E " R ; 6 ; 5 ; "

"

D. B P

6 \$ / " ") 7 4 (3 T \$ 13 + % - "

"

_ f , + * 8 " R % 3 S ' * - 3 1 D ") * ' - - "

"

"

[+7l('8/ '")74(3T\$13+% -"

"

NO '*\$(8") 74(3-B '* -"

"

N(- 'S3 '* "6T3 '%T' ") 74(3-B '* -"

"

6l\$%, +*8"R%3S '* -3lD") *' --"

"

. ' 04 '*E"U\$-&"^+*T' "1+"T+% -13171' "\$%" ' C" 0 3%+*"3%"^3(O "\$%8" . ' 83\$"61783' -E"GM!J"1+"GM!a;"

"

_*/\$%3` '*E" 5 %%7\$("2 'T17*'"3%"W%1 '*%\$13+%\$("5 ,,\$3*-E"GM!G"n":*'- '%1;"

"

^+7%8 '*"\$%8">+I+*83%\$13+%"+,"!B'"6&380+*' "['- '\$*TB"

"

>B\$3*"+,"674I>+0 0311' '93*'T1'8"C31B"1B'"U\$-&"+," b *313%/"\$6'T13+%"+,"1B'"9':\$*10'%1\$(
6'(,I-178D" [':+*1'9'\$(3%/"C31B^\$T7(ID")*+,3('E"9'S'(+:0'%1E" ['T*7310'%1"\$%8"
['1'%13+%;"

"

>+*83%\$1+*E" ['- '\$*TB" [+7%81\$4('E" . \$\$\$/ '0'%1"<="=7-3%'--"9':\$*10'%1E"^\$(("GMMMI
GMM!;"

B. L

"

. '04'*E"=7-3%'--IR%3S'*-31D")\$*1% '*-B3:"W%313\$13S'E"!\ \ ?IGMMM;"

"

5--T3\$1'"93*'T1+*E"9+T1+*\$("6178'%1"9'S'(+:0'%1")*+/*\$OE"!\ \ ?IGMMM;"

"

. '04'*E">+0 0311' ',+*5TT*'831\$13+%K5 5>6=LE"W%1'(('T17\$(">+%1*34713+%-"^+T7-E"!\ \ \ I
GMMM;"

"

>+*83%\$1+*E" d7'-1"6: '\$&'*"^+*7OE"!\ \ ?IGMMM;"

"

C. C

"

. '04'*E"R%3S'*-31D">+0 0311' 'd*\$%13%/"U'%7*'"\$%8")*+0+13+%E"!\ \ @I!\ \ H;"

"

5--T3\$1'"93*'T1+*E"9+T1+*\$(")*+/*\$OE"^\$T7(ID"+," . \$\$\$/ '0'%1E"!\ \ aI!\ \];"

"

. '04'*E"R%3S'*-31D"U\$-&"+*T'+%"6'f7\$("Y\$*\$--0'%1E"!\ \ @I!\ \];"

"

. '04'*E"R%3S'*-31D"U*\$S' ("^7%8- ">+0 0311' 'E"!\ \ aI!\ \ H;"

"

. '04'*E") '*,+*0\$%T'"NS\$(7\$13+% ">+0 0311' 'E"^\$T7(ID"+," . \$\$\$/ '0'%1E"!\ \ @I