CURRICULUM VITAE

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!"#$%&'()<sup>*</sup>*&+,*-(*
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```
! "#$%&"!'(!!
!
#$%%!&!'()*)+,!!
                      -./0(1!2/+!34!560,.!2)'/(,6)+,!78!!
                      -.)609/:!;!<0767:)9=:/(!>+?0+))(0+?!
                      @/9A!B0::!>+C7D)C! - ./0(!
       !
                      E/6/(!F+0G)(*0,H!
I$\%!&!'()*)+,!!
                      3=::!J(78)**7(!!
     !
              !
                      2/+!34!560,.!2)'/(,6)+,!78!!
                      -.)609/:!;!<0767:)9=:/(!>+?0+))(0+?!
                      E/6/(!F+0G)(*0,H!
K$%"!&!#$%%!
                      L+,)(06!-./0(!
              !
       !
                      2/+!34!560,.!2)'/(,6)+,!78!!
                      -.)609/:!;!<0767:)9=:/(!>+?0+))(0+?!
I$"M!&!N$%%!
                      O^{**790/}, I^{(78)**7(!P,)+=()C0!}
                      2/+!34!560...!2)'/(,6)+.!78!-.)609/:!>+?0+))(0+?!
       !
       !
              !
                      E/6/(!F+0G)(*0,H!
I$"I!&!"R$%R!!
                      O^{**790/}, 120()9,7(!78!S)^*)/(9.!
                      -)+,)(!87(!T0C*,()/6!T/+/?)6)+,!/+C!590)+9)!
       !
              !
       !
              !
                      E/6/(!F+0G)(*0,H!
N$R I !&!N$"M! !
                      O^{**0*},/+,!J(78)^{**7}(!!)
       !
              !
                      2/+!34!560...!2)'/(.6)+...!78!-..)609/:!>+?0+))(0+?!
       !
              !
                      E/6/(!F+0G)(*0,H!
%$RN!&!N$RI!!
                      J7*,C79,7(/:!S)*)/(9.!O**790/,)!
                      2/G)! - 4!5D/: 6!59.77:!78! - .) 609/:!>+?0+))(0+?!
                      T_{0**0**0} '0!5,/,)!F+0G)(*0,H!
"$RU!&!"%$R#!!
                      J.424! - /+C0C/,)!\&! - .) 609/:!>+?0+))(0+?1!T0**0**0''0!5,/,)!F+0G)(*0,H!
N$RR!&!"%$RV!!
                      T454!5,=C)+,!\&!-.)609/:!>+?0+))(0+?1!T0**0**0''0!5,/,)!F+0G)(*0,H!
"$IN!&!N$II!!!
                      -7\sqrt{7}!>+?0+)(!P"!H)/(!X')(0)+9)0!!B4>4!J:/*,09*!!</H!5,4!E7=0*!!T5
```

!

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!*+,-(.%'!
Y0?.!59.77:!!"IIV!!Y7=*,7+!Y0?.!59.77:!0+!Y7=*,7+!!T5!
<454!W!-.)609/:!>+?0+))(0+?!!%RRR!!T0**0**0''0!5,/,)!F+0G)(*0,H!
T454!W!-.)609/:!>+?0+))(0+?!!%RRV!!T0**0**0''0!5,/,)!F+0G)(*0,H!
J.424!W!-.)609/:!>+?0+))(0+?!!%RRN!!T0**0**0''0!5,/,)!F+0G)(*0,H!
)
/!0!-/,1).'(!/!0(0)
!
TH!()*)/(9.!,.(=*,!0*!,.)!60+060Z/,07+!P7(!):060+/,07+0!78!0+C=*,(0/:!D/*,)*!!0+9:=C0+?!./Z/(C7=*!
```

 $\mathbf{V}!$

```
%R"K!&! - . /0(1!OCG/+9)*!0+! - /,/:H*0*!*)**07+!/,!,.)!OL - .>!*'(0+?!97+8)()+9)!0+!Y7=*,7+!! b!
%R"M!&! )9.+09/:!OCG0*7($5/8),H!-7+*=:,/+,!87(!OL-.>!T0CC:)!>/*,!S)?07+/:!-.)6>!-/(!
                           -76'),0,07+!0+!</.(/0+!
R''M!\&! - ./0(1!OL - .>!5=*,/0+/[0:0,H!>+?0+))(0+?!37(=6!/+C!/()/!':)+/(H!*)**07+!
%R"M!&! - ./0(1!OCG/+9)*!0+! - /,/:H*0*!*)**07+!/,!..)!OL - .>!*'(0+?!97+8)()+9)!0+!O=*,0+!! b!
R''M!\&! - 7V - ./0(!! - .) 6.09/:!/+C! - /./:H.09! - 7+G)(*07+*!/+C!J(79)**)*!87(!S)+)D/[:)!3))C*,79A*!
                         *)**07+!/,!,.)!/++=/:!OL-.>!97+8)()+9)!0+!5/:,!E/A)!-0,H1!F!
R''U!\&!E/6/(!F+0G)(*0,H!5,(/,)?09!J:/++0+?!-7660,,))!
R''U!\&!F+0G)(*0,H!T)(0,!OD/(C!PE/6/(!F+0G)(*0,H0!))
R''U!\&! - 7V - ./0(1!OL - .>!5=*,/0+/[0:0,H!>+?0+))(0+?!37(=6!!)
R''U!\&! - ./0(1!O - 5!)D!F***87(!B:H9)(7:!*)**07+!!
R''V!\&! - ./0(1!L+,)?(/,)C!_.)(67W-.)609/:!/+C!<079.)609/:!J(79)**0+?!87(!S)+)D/[:)!3=):*!
                          /+C!-.)609/:*!*)**07+!/.!..)!/++=/:!OL-.>!97+8)()+9)!0+!5/+!3(/+90*971!-O4!)
%R"V!&! - 7W - . /0(1!S)97G)(H!78! a /:=)WOCC)C! - 7WJ(7C=9,*!8(76!<07()80+)(H!S)*0C=/:*!/+C!
                         >88:=)+,*!/.!..)!/++=/:!OL-.>!97+8)()+9)!0+!5/+!3(/+90*97!!-O4!
R'''!&! - 7\\ - . \( 0(1!\text{L}+, )\)?(\( \, )\text{C!}\) \( 0.7\\ - . \) \( 0.9\\ :!\\ + \text{C!}\) \( 0.9\
                          /+C!-.)609/:*!*)**07+!/.!..)!/++=/:!OL-.>!97+8)()+9)!0+!J0.*[=(?.!!JO!)
R'''!\&! - ./0(!!^{D}E^*)*!87(!B:H9)(7:!^*)**07+!/,!,.)!"R^{0}(!O6)(09/+!^{0}!-.)60*,*^!5790),H!
                         97+8)()+9)!0+!-0+90++/,01! Y!
 !
%R"R!\&! - 7W - ./0(1! < 07()80+)(H!\&! < 079.) 609/:! - 7+G)(*07+!/+C! < 076/**!S)9/:90,(/+9)!*)**07+!/,!
                          (0.019) \cdot (0.09) \cdot 
                          F_!
R''R!\&!-7W-./0(!!`)D!F^**!87(!B:H9)(7:!*)**07+!/,!..)!"R"!O6)(09/+!\0:!-.)60*,*^!5790),H!
                         97+8)()+9)!.):C!0+!J.7)+0X1!OS!
%RRI!\&! - 7W9./0(1!B()) + ! - ..) 60*, (H!*')90/:!*)**07 + !/,!,.)!"RR !/++=/:!O6)(09/+! \ 0:!-.) 60*,*^!
                          5790),H!97+8)()+9)!.):C!0+!\(:/+C7!!3E!
RRN!\&!L+C=*,(0/:! \setminus 0:!J(7C=9,*!20G0*07+!5,=C)+,!OD/(C!87(!,.)!O6)(09/+! \setminus 0:!-.)60*,*^!5790),H!
```

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U

 $-Y>`!KVU\#!\&!OCG/+9)C!_.)(67CH+/609*!P5'(0+?!h''\%!\&!h''\#!!5'(0+?!h''I!\&!h\%''0!-Y>`!MVR''!\&!$

!

K

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T/X0+)!@7+)*!PT5F0!!
                                                                        <),./+H! .76'*7+!PT5F0!!!
                                                                                                                                                                   (/H!O9.7(+!PT5F0!)!
f/,(0+/!J/(A)(PT5F0!!)
                                                                        @/()C!30*.)(!PT5F0!!
                                                                                                                                            !
                                                                                                                                                                   O::0*7+!37(A*!PT5F0!!
<(0,7+!>H:)*!PT5F0!!
                                                                        !
                 !
                                  !
4/-*+-(!)0(+*!'(0)C?@)#%0()*%,(%/-(!0)''!'(%/!*!
S/80o!L*:/6!PJ.20!&!20**)(,/,07+!_0,:)!iYHC(7,/:90,)$E0?/+C!-/,/:H*,*!87(!,.)!37(6/,07+!78!
B:H9)(7:W8())!<07C0)*):!8(76!E0'0C!\setminus0:!3))C*,79A*!F*0+?!206), H:!-/([7+/,)k!PB(/C=/,)C!T/H!
%R"V0!
!
m0*./+!p./+?!PJ.20!\&!20**)(,/,07+!0,:)!i5H+,.)*0*!78! `7G):!-/,/:H*,*!87(!,.)!(0()87(60+?!)
-7+G)(*07+!78! - /([7+!207X0C)k!PB(/C=/,)C!2)9!%R"U0!
!
TC4! > (8/+!S/0./+!PJ.20!i-76'().)+*0G)!J/(/C0?6!87(!-7+G)(,0+?!1/*,)!-/([7+!207X0C)!,7!
a/=:1!OCC)C!-..)609/:*k!PB(/C=/.)C!T/H!%R"#0!
!
f/(0^*.6/!J_0)(!PJ.20!i5H+...)*0*!/+C!T/.)(0/:!-./(/9,)(0Z/.07+!78! 0 \ !&!51 - ` !
F^*)8=:!YHC(79/([7+*k!PB(/C=/,)C!2)9!%R"I0!
E0+.!27/+!PJ.20!i>*,06/,0+?!\_.)(67CH+/609!J(7')(,0)*!87(!,.)!S)67G/:!78!Y\%5!F*0+?!O60+)!
+C!L7+09!E00=0C!O[*7([)+,*!87(!T0C*,()/6!J(79)**)*k!PB(/C=/,)C!2)9!%R%R0!
OC.0^*.15/A)..T/C=?=:/IJ)(87(6/+9)!78!>97+7609!T7C):IJ()C09.0G)!-7+.(7:!7+!O[*7('.07+!)]
/+C!OC*7(',07+!</*)C!-(!-/',-()!/+C!5,7(/?)!T),.7C*!8(76!5,/,07+/(H!3=):!-76[=*,07+!]
57=(9)*!0+!S)80+(0)*k!PB(/C=/,)C!2)9!%R%%0!
                 !
m7?)*.!f = (:)!PT50!\&!_.)*0*!_0;:)!iJ(79)**!2)G):7'6)+,!87(!_(0/9H:?:H9)(7:!-7+G)(*07+!,7!/!)
B:H9)(7:V8())!<078=):k!PB(/C=/,)C!2)9!V8""0!
.76/*!p/9./(0/!PT50!\&!..)*0*!0,:)!iT=:,0\%6),/:!^/+7'/(,09:)!-/,/:H*,!5H+,..)*0*!F*0+?!
S(G)(*)!T(9)::)! (9.+00=)k!PB(/C=/,)C!2)9!%R''%0!
Y/H/,!S/Z/!PT50!\&!...)*0*!.0*!)+!506=:/,07+!78!YHC(7,..)(6/:!E00=)8/9,07+!J(79)**!87(!...)*0*!.0*!PT50!&!...)*0*!.0*!PT50!&!...)*0*!.0*!PT50!&!...)*0*!.0*!PT50!&!...)*0*!.0*!PT50!&!...)*0*!PT50!&!...)*0*!.0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!....)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!....)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!...)*0*!PT50!&!....
..)!-7+G)(*07+!78!O:?/)!,7!S)+)D/[:)!3=):*!/+C!-.)609/:*k!PB(/C=/,)C!T/H!%R"U0!
f./: C!O:/6(!PT50!\&!_.)*0*!_0:)!iS)/9,7(!2)*0?+!/+C!\',060Z/,07+!87(!J.7,79/,/:H,09!
-7+G)(*07+!78! - /([7+!207X0C)k!PB(/C=/,)C!O=?!%R"U0!
0.7* = /! < 7(.7 + !PT50!\&! ...)*0*! 0.:)!iJ/(/6),(0.9!5,=CH!&(7! (0/Z/[0.9H9:7C)9)+)! - /,/:HZ)C! < 0.78=):!
F*0+?!Y0?.!3())!3/,H!O90C!3))C*,79A*k!PB(/C=/,)C!2)9!%R"U0!
f HG/+! T7::/ H^*, 1750! = 1.50! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1750! + 1
78! - (=C)!a)?),/[:)! \setminus 0:*!,7!/!5=*,/0+/[:)!<078=):k!PB(/C=/,)C!T/H!%R"M0!
```

N.

M4!DA?EF?7) (4!!Y)(+/+C)Z!!S4!!3()+9.1! 1 4_4!!O::)H1!>4B4!!/+C!Y7:6)*!! 1 4>4!P%RRIQ!i>:=90C/,07+! 78!,.)!-/,/:H,09!-(/9A0+?!J/,.D/H!87(!F+*/,=(/,)C!T7+7\!20\!1!/+C!_(0/9H:?:H9)(0C)*!7+! Y p5T\"

! "R!

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M4!p./+?1!m41!p./+?1!541!B7**/?)1!@41!E7=1!Y41!DA?EF?7)(656!P%R"U0!i.)(67CH+/609!O+/:H*0*!
78!_{(W)}87(60+?!S)/9,07+*!,7!J(7C=9)!5H+?/*ik!>+)(?H!;!3=):*i!%Ni!%#"#!&!%#%K4!
...'*j$$'=[*4/9*47(?$C70$"R4"R%"$)8MRRRNU 6!
"K4!p./+?!!m4!!p./+?!!54!!B7**/?)!!@4!!E7=!!Y4!!DA?EF?7)(@5@!P%R"UQ!iO!-7+9)',=/:!2)*0?+![H!
L+,)?(/,0+?!5,)/6!S)87(60+?!/+C!2(H!S)87(60+?!-7=':)C!D0,.!J/(,0/:!\setminus X0C/,07+!78!T),../+)!
J(79)**)*!87(!- \ !>60**07+!S)C=9.07+!k!-.)609/:!>+?0+))(0+?!:!)9.+7:7?H!!V#!!"UIV!&!"UII4!
.,, 'j$$7+:0+):0[(/(H4D0:)H4976$C70$"R4"RR%$9)/,4%R"URR"V%$/[*,(/9,!
"#4!3/+?!!m4!!$/*):!!T4O4f4!!DA?EF?7)(6567!$09.67+C!!J4-4!P%R"U0!i`7G):!Y/+C*\V7+!1/.)(!
G(8:7D!5L5!>X')(06)+,!0+!F+C(?(/C=/,)!J(79)**!-7+,(7:!E/[7(/,7(H!k!-.)609/:!>+?0+))(0+?!
>C=9/,07+1! a U I 1!V#!&!UK4!!
"N4!p./+?1!m4!!p./+?1!54!!DA?EF?7) ($56!P%R"M0!iO!-7+9) ',=/:!2)*$0?+![H!L+,)?(/,0+?!206),.H:!
>,...)(!P2 T>0!J(7C=9,07+!D0,..!_(0\))(87(60+?!J(79)**!87(!-\\!>60**07+!S)C=9,07+lk!3=):!
J(79)**0+?! )9.+7:7?H1!"V"1!#!&!"V4!
!...'j$$DDD4*90)+9)C0()9.4976$*90)+9)$/(,09:)$'00$5RV#NVN%R"URRU#V"!
" I4!! T7::/)0/+1! f 4!! 1 )0!!54!!L*:/61! T4S4!!209A)(*7+1!<4!!Y7:6)*!! 1 4>4!!DA?EF??)(6)56!P%R"K0!
i \ 2 \ G): 7' \ G) + .!78! + ! \ + :0+)!S / G / + !O+/:H*0*! \ )9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!J(7C=9.07+!78!)!9. +00=)!87(!T7+0.7(0+?!...)!19. +00=
<078=):*k!O-5!>+)(?H!;!3=):*l!VR!PM01!U""%\\U""#4!
.,, 'j$$CX4C7047(?$"R4"R%"$/9*4)+)(?H8=):*4K[RRV"V!
%R4!O?[(7A71!\4!14!!J0:)(1!f4!!DA?EF?7)(6)56!P%R"#0!iO!-76'().)+*0G)!S)G0)D!78!Y 5!
59/G) + ?)(!\_)9. + 7:7?0)*!8(76! \setminus 0:!/+C!B/*!5,()/6*lk!-.)6<07>+?!S)G0)D*!!U!!"!\&!%4!
.,, '*j$$7+:0+):0[(/(H4D0:)H4976$C70$/[*$"R4"RR%$9[)+4%R"KRRR%K!
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! "%!

```
U4!!%K!@=+)!%RR%!&!iL++7G/,0G)!OC*7([)+,*!87(!,.)!2).HC(/,07+!78!>,./+7:k!&!J()*)+,)C!,.)!
()*=:,*!78!6/*,)(^*!,.)*0*!'(7e)9,!/,!,.)!"N !O++=/:!L+,)(+/,07+/:!3=):!>,./+7:!17(A*.7'!/+C!
_(/C)*.7D!0+!5'(0+?80):C!!LE4!!!
!

M4!!%M!T/(9.!%RRV!&!i5)'/(/,07+!78!>,./+7:!8(76!3)(6)+,)(!>88:=)+,*k!&!J()*)+,)C!0+87(6/,07+!
7+!,.)!'(79)**!78!C0*,0::/,07+!/+C!C).HC(/,07+!78!8)(6)+,)C!),./+7:!/,!,.)!%RRV!T0**0**0''0!
<\076/**!-7+8)()+9)!0+!@/9A*7+!!T*4!
!

K4!!"I!^7G)6[)(!%RRV!&!i2)G):7'6)+,!78!^)D!OC*7(',07+!T/,)(0/:*!87(!,.)!2).HC(/,07+!78!
>,./+7:k!&!J()*)+,)C!()*=:,*!8(76!6/*,)(^**!,.)*0*!'(7e)9,!/,!,.)!%RRV!O++=/:!OL-Y>!
97+8)()+9)!0+!5/+!3(/+90*97!!-O4!
!

#4!!I!^7G)6[)(!%RRU!&!iJ(7C=90+?!>:)9,(09!J7D)(!8(76!<(70:)(!E0,,)(k!&!J()*)+,)C!/,!,.)!%RRU!
O++=/:!OL-Y>!97+8)()+9)!0+!O=*,0+1!_b4!
!

N4!!"!^7G)6[)(!%RRM!&!iJ(7C=9,07+!78!<07C0)*):!8(76!E0'0C\S09.!L+C=*,(0/:!1/*,)!5,()/6*k!&!
J()*)+,)C!/,!,.)!%RRM!O++=/:!OL-Y>!97+8)()+9)!0+!-0+90++/,0!!^Y4!
!

14!"M!^7G)6[)(!%RRK!&!i
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! "U!

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% I4!!"M!@=+)!%R"R!&!i 2)G):7'6)+,!78!/+!LC)/:!YHC(7,()/,0+?!-/,/:H*,!87(!,.)!-7+G)(*07+!78!
    J.7*'.7:0'0C*!,7!<078=):*4k!!J()*)+,)C!/,!,.)!%" !L+,)(+/,07+/:!5H6'7*0=6!87(!-.)609/:!
    S)/9.07+!>+?0+))(0+?!0+!J.0:/C):'.0/1!JO4!
VR4!I! \ TG!\%R"R!\&!i \ J(7C=9.07+!78!<07C0)*):!F*0+?!206), H:!-/([7+/,)!/*!,.)!T), H:/,0+?!O?)+,i!!
    O!B:H9)(7:W8())!<078=):k!J()*)+,)C![H!?(/C=/,)!*,=C)+,!T09./):!T0?=)Z!/,!,.)!%R"R!/++=/:!
   OL - Y > !97 + 8)() + 9)!0 + !5/:, !E/A)! - 0, H1!F_4!
V"4!V!T/H!\%R""!\&_0^{\dagger}iO:,)(+/,)!T), H:/,0+?!O?)+,!0+!J(7C=90+?!B:H9)(7:W8())!<078=):k!J()*)+,)C!
    /.!..)!"R% !/++=/:!O \setminus -5!97+8)()+9)!0+!-0+90++/.01! \setminus Y4!
V\%4!"N! \setminus 9,!\%R""!\&!iL+!*0,=!3 LS!5,=CH!87(! (0\%S)87(60+?!S)/9,07+k!J()*)+,)C![H!?(/C=/,)!]
    *,=C)+,!m0*./+!p./+?!/,!,.)!/++=/:!OL-.>!97+8)()+9)!0+!T0++)/'7:0*!!T^4!
VV4!"I! \setminus 9.!\%R""!\&!i2)G):7'6)+,!78!^{+7'}/(,09:)!-/,/:H*,!87(!,.)!\_(0()87(60+?!78!-) WS09.!3:=)!
    B/*)*k!J()*)+.)C!/...)!/++=/:!OL-.>!97+8)()+9)!0+!T0++)/'7:0*!!T^4!
VU4!"I! \setminus 9,!\%R""!\&!iF+0o=)!J(79)**0+?!-7+*0C)(/,07+*!87(!,.)!\_(0()87(60+?!78!- \setminus !,7!5H+?/*k!))
    J()^*)+, C!/,!,.)!/++=/:!OL-.>!97+8)()+9)!0+!T0++)/'7:0*1!T^4!
VM4!!NN!T/(!NR"|.k!i3(76!^++7W-/,/:H*,!,7! (0()87(60+?!J(79)**i!>+?0+))()C!- \cdot !-7+G)(*07+k!
    J()*)+, C!/,!,.)!O-5!O++=/:!5'(0+?!97+8)()+9)!0+!5/+!20)?7!!-O4!
VK4!"!O'(!%R"%!&!iS)G0G0+?!/!27(6/+,!5)9,07+i!O!-/*)!5,=CHk!J()*)+,)C!/,!,.)!OL-.>!E79/:!
    5)9,07+!E)/C)(*.0'!17(A*.7'!0+!Y7=*,7+1!_b4!
V#4!%V!O=?!%R"%!&!
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"M"

U%4!"!`7G!%R"%!&!

! "K!

MU4!!I!`7G!%R"M!&!

! "#!

"N

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\#N4!\%\#! T/(4!\%R\%U!\&!iS7:)!78!^7+/o=)7=*!O60+)*!87(!J7,)+,0/:!-\%!-/',=()!57:G)+,*k!J()*)+,)C!
          /,!,...!OL - . >!5 '(0+?! - 7+8)()+9)!PJ()*)+,)C![H!O0*.D/(H/!S7H!&! T 5!5,=C)+,04)
!
)
#%0(!/)#/!0!'(-(.%'0)
 "4!! @7+)*!! T4!! <)+*7+!! 4!! /+C! B)7(?)!! -4! P%RR%0! i>, . /+7:i!! 3=):! 87(!, .)! `)D! T0::)++0=64k!
           J()^*)+, C!/,!,.)!" !/++=/:!>W1))A!'7*,)(!976'),0,07+!/,!T0**0**0''0!5,/,)!F+0G)(*0,H4!
!
\%4! \ 560, .1! \ 41! <) + *7 + 1! \ 41! \ / + C! \ B) \ 7(?) \ 1! \ -4! \ P\% RRV0! \ i>, . / +7 :! \ 2) . HC(/, 07 +! \ F*0 + ?! < 076 \ / **!
          OC^*7([)+,*4k!!J()^*)+,OC!/,!,.)!\% !/++=/:!>W1)A!'7^*,O(!976'),O(7+!/,!T0**0**0''0!5,/,)!
           F+0G)(*0,H4!
V4!!<)+*7+!!\_4!!p/''0!!T4!!/+C!3()+9.1!\_4!P%RRU0!iJ():060+/(H!O**)**6)+,!78!,.)! \quad )9.+09/:!/+C!
          >97+7609! a 0/[0:0,H! 78! J(7C=90+?! <07?/*! /,! T 5! <(70:)(! J7=:,(H! S/0*0+?! \ ')(/,07+*4k!!
          J()^*)+, C!/,!,.)!57=,.)(+!<07VJ(7C=9,*!-7+8)()+9)!0+!<0:7X0!!T54!
U4!!<)+*7+1! 4!/+C!B)7(?)1!-4!P%RRU0!i-)::=:7*)!</*)C!OC*7([)+.!T/,)(0/:*!87(!..)!2).HC(/,07+!)
          78! > 1.74! + 71! + 78! + 78! = 1.06 + 71! + 78! + 78! = 1.06 + 71! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 78! + 
          OC*7(',07+!0+!5)C7+/1!Op4!!
M4! Y/(,)+[7D)(!!<4!!<)+*7+!! 4!! /+C! p/''0!! T4! P%RRM0! i T),../+)! B)+)(/,07+! 8(76!<(70:)(!
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"I!

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""4! < 1 + 7 + 1! 404! / + C!L^* : / 61! T C 4! S 4! P 6 R "V 0! i 5 H + . . ) <math>*0^*! / + C! - . / (/9, )(0Z/, 07 + !78! B = / +0C0 + )! < / *) W
          3=+9.07+/.0Z)C! T ?SO: E/H)()C! 27=[:)! YHC(7X0C)*k! J()*)+,)C! ...)! T_{A}?
          5H6'7*0=6!7+!-.)609/:!S)/9,07+!>+?0+))(0+?!0+!Y7=*,7+1! b4!!
"%4! ! p \cdot / + ?!! m 4!! - (=Z!! @ 4!! <) + *7 + 1! 4@ 4! P \% R " V 0! i 2 ) G ) : 7 ' 6 ) + ,! 78! /! S ) G ) (*)! T 09 ) :: )! - / , / : H * ,!
          5H+...)*0*! T)..7C!87(!J(7C=90+?!T=:,0WT)./:!\/+7W5,(=9,=()*!7+!/!0\\%!O+/,/*)!5=\'7(.k!
          J()*)+,C!/,!,.)!%R"V!/++=/:!OL-.>!97+8)()+9)!0+!5/+!3(/+90*97!!-O4!
"V4! < )+*7+!! 4!! S/Z/!! Y4!! S7[)(,*1! B4 1 4!! 37(,0)(1! T4 \ 4!! 5,/??\! 1 0::0/6*!! 54 T4!! 5,=(61! < 454 T!)
          PR"V0!iO*')+!506=:/,07+!87(!,.)!YHC(7,.)(6/:!E0o=)8/9,07+!78!O:?/)!,7!B)+)(/,)!3=):*!/+C!
           -.)609/:*k!J()*)+,)C!/,!,.)!%R"V!/++=/:!OL-.>!97+8)()+9)!0+!5/+!3(/+90*97!!-O4!)
"U4!S/0./+!!TC4!>4!/+C!<)+*7+!! 4!P%R"M0!iS)/9,7(!506=:/,07+!78!J.7,79/,/:H,09!-/([7+!207X0C)!
           -7+G)(*07+!<H!5/,=(/,)C!5,)/6!7G)(!_0\%k!J()*)+,)C!/,!,.)!%R"M!/++=/:!OL-.>!97+8)()+9)!
          0+!5/:, !E/A)! - 0, H!PJ()*)+, C![H!TC4!>(8/+!S/0./+WJ.2!5,=C)+,0!
M4!O?[(7A7!) 4!T7::/)0/+!!f4!Y7:6)*!!14!!<)+*7+!!40!P%R"M0!i +:0+)!S/6/+!5')9,(7*97'H!
          O+/:H*0*! )9.+0o=)!87(!T7+0.7(0+?!<078=):!S)/9.07+!F*0+?!Y).)(7?)+)7=*!E/H)()C!27=[:)!
          YHC(7X0C)! - \frac{1}{2}H^*, k! J()^* + \frac{1}{2}C! \frac{1}{2}L! \frac{1}{2}L
          PJ()*)+, C![H! \setminus [7A7()!O?[(7A7WJ . 2!5,=C)+,0!]]
"K4! J0:)(!! f4!! <)(++/ZZ/+0!! J4!! </.(06!! -4!! <)+*7+!! 4@4! P\R\"K0! i \ 7G):! -/./:H\*,\*! 87(!
           J.7,79/,/:H,09! - 7+G)(*07+!78! - \ Y
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%R'

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%"4! J0:)(!! f 4!/+C!<)+*7+!! 404!P%R"N0! i 5):8WO**) 6 [:H!78!5')90809! \ /+7+*,(=9,=()*!7+! - /,/:H,09!
   5=''7(,*!F*0+?!S)G)(*)!T09)::)*k!J()*)+,)C!/,!,.)!"R!O++=/:!OL-.>!57=,.D)*,!J(79)**!
   9.+7:7?H!-7+8)()+9)!0+!B/:G)*,7+1! b!PJ()*)+,C![H!f/(0*.6/!J0:)(WJ.2!5,=C)+,0!
\%\%4!S7H1!O0*.D/(H/1!T/C=?=:/1!O4-4541!/+C!<)+*7+1!_4@4!P%R\%U0!iLC)+,0809/,07+!78!^7+WOo=)7=*!
   57:G)+,*!87(!J/0(0+?!D0,.!O60+)V,H')!-\%!-/',=()!5H*,)6*k!L+,)(+/,07+/:!2/H!78!176)+!
   +C!B0(:*!0+!590)+9)1!<)/=67+,!!_b!PJ()*)+,)C![H!O0*.D/(H/!S7H!&!T5!5,=C)+,0!]
!
,\% " ".((!!)"! "D!/)2%/)4/-*+-(!)0(+*!'()/!0!-/,1)
S7X/++)!J/C:/+!PT50!i5H+,.)*0*!/+C!-./(/9,)(0Z/,07+!78!E/H)()C!27=[:)!YHC(7X0C)*k!
2)8)+C)C!%R"R!
!
-./(:)+)! /H:7(!PT 50!i>:)9,(79.) 609/:!L6')C/+9)!5')9,(7*97'09!-./(/9,)(0Z/,07+!78!-/([7+!
>6()!O,/[)H!PT50!i3:=7()*9)+,!>:)9,(7*'=+!J7:HG0+H:!O:97.7:!^/+7976'7%),!30[)(*!D0,.!)
-C5) x p+5! c=/+,=6!27,*k!2)8)+C)C!%R""!
@=(0!5):0?!PJ . 20!i - 76 [=*,07+!5H+, . )*0*!78!_ . )(67):)9,(09! \ X0C)*k!2)8)+C)C!%R"%!
O0*./!E).!PJ.20!i5,=CH!J/(/6),)(*!-7+,(7::0+?!2(7'!OC.)*07+!,7!5=(8/9)*k!2)8)+C)C!T/H!
%R"%!
0/.=/!p.=!PJ.20!iL+,?(/,)C!^/+7976'780,)*! 7D/(C!>:)9,(79.)609/:!>+)(?H!5,7(/?)!/+C!
>+G0(7+6)+,/:!S)6)C0/,07+k!2)8)+C)C!%R"V!
J(),0!B/+?/C./(/+!PJ.20!i5=*,0+/[0:0,H!78!5H+?/*!-7+G)(*07+!)9.+7:7?0)*k!2)8)+C)C!T/H!
%R"V!
f/0!E0/+?!p.)+?!PJ. 20!iL+97('7(/,0+?!5=*,/0+/[0:0,H!0+,7!,...)!>/(:H!2)*0?+!5,/?)!78!-..)609/:!
J(79)**WS)/9,07+!J/,.D/H!5):)9,07+k!2)8)+C)C!T/H!%R"V!
5(=,.0! /C/A/6/::/!PT50!iJ7:H/+0:0+)!5,/[0:0Z)C!T/?+),09! /+7'/(,09:)*!S)0+87(9)C!>'7XH!
`/+7976'7*0,)*!/+C!3:/6)!S),/(C/+,!>'7XH!S)*0+!`/+7976'7*0,)*k!2)8)+C)C!O=?!%R"V!
</[A!S/80]!^0/PT50!iB/*!5)'/(/,7(!T0*,!>:060+/,7(!10()*WE0o=0C!OC.)*07+!F*0+?!,..)!
-)+,(08=?/:!OC.)*07+!</:/+9)k!2)8)+C)C!2)9!%R"V!
<1:0+C/!T7:0+/!PT50!iO:A/:0!J(767,)C!T7:H[C)+=6!20*=:80C)!</*)C!-/,/:H*,*1!2)G):7'6)+,!
/+C!-./(/9,)(0Z/,07+!87(!O:97.7:!5H+,.)*0*!8(76!-/([7+!T7+7X0C)!/+C!YHC(7?)+k!2)8)+C)C!
2)9!%R"V!
 _*/0W`/+!T/0!PT50!iO!T7C):0+?!/+C!>X')(06)+,/:!5,=CH!78!,.)!f0+),09*!78!L+,(/9)::=:/(!
5H+, )*0*!78!50:G)(!^+7'/(,09:)*!F*0+?!-.:/6HC767+/*!S)0+./(C00k!2)8)+C)C!@=+)!%R"#!
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%**''**!

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T7+00=)! 1 0: [=(+!PJ . 20!i T), . /+)! \ X0C/,07+! \ G)(1!/+C!5=:8=(!L+,)(/9,07+*!D0, .1!JC\$J,!
  <0.6),/::09! - /,/:H*,*k!2)8)+C)C!2)9!%R"#!PF+0G)(*0,H!78!Y7=*,7+0!
  T):/+0)!Y/Z:),,!PJ . 20!i f 0+),09!/+C!T)9 . /+0*,09!5,=CH!78! - \!/+C!YHC(79/([7+!\X0C/,07+1!/+C!
  X! \ X0C/.07+!/+C!S \ C=9.07+! \ G)(!J, WJC!-/./:H*,*k!2)8)+C)C!2)9!%R"#!PF+0G)(*0,H!78!
Y7=*,7+0!
m/+!3/+?!PJ \cdot 20!iJ(79)**!5/8, H!O'':09/,07+*!78!J:/+,!2-5!2/,/!/+C! \setminus ')(/,0+?!J(79)C=()!
O+/:H*0*!D0...!S0*A!O**)**6)+,k!2)8)+C)C!O=?!%R"N!
OC/(*.! < /8/+/!PJ.20!i \ /+76/,)(0/:*i!5H+,.)*0*!!5=*,/0+/[0:0,H1!/+C!O'':09/,07+*k!2)8)+C)C!
O=?!\%R"I!
!
5.0*.0(! f = 6/(!PJ.20!i5 = *,/0+/[:)!T09(7D/G)!5H+,.)*0*!78!L+7(?/+09!`/+7'/(,09:)*!/+C!_.)0(!f = 6/(!PJ.20!i5 = *,/0+/[:])!T09(7D/G)!5H+,.)*0*!78!L+7(?/+09!`/+7'/(,09:)*!/+C!_.)0(!f = 6/(!PJ.20!i5 = *,/0+/[:])!T09(?D/G)!5H+,.)*0*!78!L+7(?/+09!`/+7'/(,09:)*!/+C!_.)0(!f = 6/(!PJ.20!i5 = *,/0+/[:])!T09(?D/G)!5H+,.)*0*!78!L+7(?/+09!`/+7'/(,09:)*!/+C!_.)0(!f = 6/(!PJ.20!i5 = *,/0+/[:])!T09(?D/G)!5H+,.)*0*!78!L+7(?/+09!`/+7'/(,09:)*!/+C!_.)0(!f = 6/(!PJ.20!i5 = *,/0+/[:])!T09(?D/G)!5H+,.)*0*!78!L+7(?/+09!`/+7'/(,09:)*!/+C!_.)0(!f = 6/(!PJ.20!i5 = *,/0+/[!])!T09(?D/G)!5H+,.)*0*!78!L+7(!PJ.20!i5 = *,/0+/[!])!T09(?D/G)!5H+,.)*0*!78!L+7(!PJ.20!i5 = *,/0+/[!])!T09(!PJ.20!i5 = *,/0+/[!])!T09(!PJ.20!i
O'':09/.07+k!2)8)+C)C!O=?!%R"I!
O^*.0? = (!S/.6/+!PJ.20!i < 0.7*H+...).09! - 7+G)(*0.7+!78!O?!.7! - 7::70C/::H!5./[:)!OB!
  j!O!T)9./+0*,09!a0)D!78!,.)!E0?.,WL+C=9)C!
5H+,.)*0*!J(79)**!/+C!,.)!L6'/9,!78!,.)!>X,(/9)::=:/(!J7:H6)(09!5=[*,/+9)*!7+!,.)!5,/[0:0,H!78!]
 ,.)!\'\+7'\(,\09:)\*k!2)\8)+C)C!2)\9!\%R"I!
O+OA, f \cdot C! i - 7+CO_0O7+ T_1+O_1O_1+ T_2+O_1O_1+ T_1+O_1O_1+ T_2+O_1O_1+ T_1+O_1O_1+ T_2+O_1O_1+ T_1+O_1O_1+ T_1+O_1O_
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