

## 7UbbYg'&\$&).; `UbnghØW\_ XYf': ]`a \_i bgh i bX 'HU`YbhY 'Ui g'6UVY`gVYf[ °

8 Ug'+, "'7 UbbYg!:]`a ZYgh]j U``Z]bXYh'j ca '%' "'V]g'&("'A U] &\$&) 'ghUhhž'a]h'\cWX\_UfÀh][Yb':]`a Yb'i bX'hU`Ybh]YfhYb :]`a i b]!5 Vgc`j YbhYb"



7 UbbYgž: fUb\_fY]WX ! 8 Ug'+, "'=bhYfbUh]cbU`Y': ]`a ZYgh]j U`j cb 7 UbbYg Z]bXYh]b X]YgYa '\lambda\formalfi ca '%' "'V]g & ("'A U] & & &)
ghUhh"=a :: c\_i g'XYg': Ygh]j U`g'ghY\h'XYf'< Ui dhk YhhVYk YfV'i a 'X]Y
VY[Y\fhY'; c`XYbY'DU`a Y"8 Ug': Ygh]j U`ž'XUg']b 'XYf'[`Ua ci fÒgYb
GhUXh'Ub 'XYf'7 DhY'X 5 ni f'Ui g[Yf]WX hYh'k ]fXž'V]YhYh
: ]`a VY[Y]ghYfhYb'Y]bY'VfY]hY'DU`YhhY'Ub'JYfUbghU`hi b[Yb'i bX
: ]`a j cfZØ\fi b[Yb"8]Y': ]`a i b]j Yfg]hÀh'6UVY`gVYf['VYf]WXhYhYž
XUgg'XUg'cZZ]n]Y``Y'Dfc[fUa a i bhYf'UbXYfYa 'Y]bYb'K YhhVYk YfV
ZØf'?i fnZ]`a Yž' @U'7]bYZ 'ZØf': ]`a ghi X]YfYbXY'gck ]Y'X]Y'FY]\Yb
I b'7YfhU]b'FY[UfX ž' @U'GYa U]bY'\DhYfbUh]cbU`Y'XY'`U'7f]h]ei Y
i bX' @U'E i ]bnU]bY'XYg'7]bÅUghYg 'i a ZUggh"

9]b '\YfUi gfU[YbXYf'6Y]hfU['Ui g'8Yi hgW\`UbXž'XYf']a

<Ui dhk YhhVYk YfV ``Ài Zhž']gh'XYf': ]`a ` GCI B8 C: `: 5@=B; "
<]Yf']gh'X]Y': ]`a i b]!Ghi XYbh]b `6]``]Y `A ]bX `U`g' \*\b]cf!9X]hcf]b
gck ]Y `Gci bX `8 Yg][ bYf]b `U\_h]j ži bhYfghØhnh'j cb `5`i a b] `k ]Y `
9j Y`mb `F UW\_']b `XYf'A cbhU[ Yž'9]\_Y '< cgYb ZY`X']b `XYf'A i g]\_'i bX `
A UfYb `GWX a ]hh'gck ]Y `@UggY `GWX UfdYb `U`g'DfcXi nYbhYb"
Ni XYa `]gh'7`Ui X]U'; Y]g`Yf!6UX]b[ ž'Y]bY `DfcZYggcf]b `XYf
: ]`a i b]ž'HY]``XYq'7 Ughg'XYq': ]`a g"</pre>

## 6YgcbXYfY'5i gk U\`i bX'9\fi b[Yb

8]Y'5i gk U\`'Ub'?i fnZ]`a Yb'i bhYf'XYa 'Dfc[fUa a '@U'7]bYZ'nY][h Y]bY'VYY]bXfi W\_YbXY'?c``Y\_h]cb'j cb'%\* ':]`a Ybž'X]Y'Ui g'ØVYf' &"+\$\$'Y]b[YfY]WXhYb'K Yf\_Yb'Ui g[Yk À\`h'k i fXYbž'XUfi bhYf %' '?i fngd]Y`Z]`a Y'i bX'' 'Ub]a ]YfhY'?i fnZ]`a Y"'8Yf':]`a i b]!:]`a 'A M'; F5B8A CH<9F'=G'5'G? M8=J9F ž'XYf'j cb'Dc`]bU D]XXi VbU'[YgWXf]YVYb'i bX']bgnYb]Yfh'k i fXYž']gh'YVYbZU``g'HY]` X]YgYf'5i gk U\`"8Yf':]`a 'YfnÀ\`h'X]Y'; YgWX]WXhY'XYf''A b[Yb: U``gWX]fa gdf]b[Yf]b'5`Zm]U']b'HUXgWX]\_]ghUb'k À\fYbX'XYf'%- \*\$Yf \U\`gWX]Y'Y]bYb'5bfi Z'j cb']\fYf'9b\_Y`]b'Ui g'XYf'I \_fU]bY']a '\U\`\fYž'X]Y'Y]bYb'5bfi Z'j cb']\fYf'9b\_Y`]b'Ui g'XYf'I \_fU]bY']a '\U\\fYž'X]Y'Y]bYb'5bfi Z'j cb']\fYf'9b\_Y`]b'Ui g'XYf'I \_fU]bY']a '\U\fY\$

Ni gÀhn`]W\ k ]fX`XUg`?i fnZ]`a dfc[fUa a 'B9LH'; 9B9F5H=CB G < CFH'H = 9F'Ua '&\$"'A U]'VY]a 'A UfW\Å'Xi ': ]`a 'dfÀgYbh]Yfhž'k c %%'?i fnZ]`a Y'Ui g'%' \* '9]bfY]W\ b[Yb'Ui g[Ygi W\h'k i fXYb"'8Yf' : ]`a i b]!: ]`a 'F97CF85F = 'j cb'7Ufc`]bU'7fi n'i bX'A U\Yf 5VXc']gh'YVYbZU``g'HY]`'X]YgYg'Dfc[fUa a g"

## 9\fib[Yb'ibX'X]Y'\(\frac{1}{2}\) fm'XYg': Ygh]j U`g

8]Y '\* fm'XYg': Ygh]j U`g'k ]fX']b'X]YgYa '\*\U\f'j cb'XYf'fYbca a ]YfhYb GW\Ui gd]Y`Yf]b'\* i ``]YhhY'6]bcW\Y'[Y`Y]hYh"8]Y
9fÒZZbi b[gnYfYa cb]Y'k]fX'j cb'@Ui fYbh'@UZ]hhY'a cXYf]Yfhžii bX
X]Y'9\fYbdU`a Y'k]fX'Ub'XYb'`Y[YbXÀfYb'GW\Ui gd]Y`Yf'FcVYfh
8Y'B]fc'j Yf`]Y\Yb"'8Ug'cZZ]n]Y``Y'D`U\_Uh'XYg': Ygh]j U`g'ghY``h'X]Y
]\_cb]gW\Yb'GW\Ui gd]Y`Yf'5bci \_'5]a ÅY'i bX'\*\Ybb!@ci ]g
Hf]bh][bUbh'Ui g' 5'A Ub'UbX'U'K ca Ub 'f%-\*\*E'XUfž'Ybhk cfZYb j cb'<Ufh`UbX'J]``U"

8 Ug: Ygh]j U``]gh'ni XYa `]b`XYf'² ZZYbh`]W\\_Y]h`ZØf`gY]bY
GhY``i b[bU\a Y`ni `U\_hi Y``Yb`9fY][b]ggYb`VY\_Ubbh"
HfU[]gW\Yfk Y]gY`k i fXY`X]Y`dU`Àgh]bYbg]gW\Y:: chc^ci fbU`]gh]b`:
Uha U`< UggcbUž`X]Y`U`g'< Ui dhZ][i f`]b`Y]bYa `8 c\_i a YbhUfZ]`a
Ui ZhUi W\hž`VY]`Y]bYa `]gfUY`]gW\Yb`@ ZhUb[f]ZZ`]b`; UnU`[YhÒhYh"
8 Ug:: Ygh]j U``VfUW\hY`gY]b`6Y]`Y]X`ni a `5i gXfi W\_i bX`\_f]h]g]YfhY
X]Y`; Yk U`h`]b`XYf`FY[]cb"

## :]`a Y`]a '<Ui dhk YhhVYk YfV'i bX'a Y\f

±b`X]YgYa '≯J\f`\_cb\_i ff]YfYb`nU\`fY]W\Y`: ]`a Y`i a 'X]Y`; c`XYbY DU`a Yž`XUfi bhYf` 5`d\U 'j cb`≯i `]U`8i Wci fbUi ž` 8]Yž`A m @cj Y 'j cb`@mbbY`F Ua gUmž` 9U[ `Yg`cZ'h\Y`F Ydi V`]W 'j cb` HUf]\_ `GU`Y\`i bX`j ]Y`Y`a Y\f"`8]Y`@]ghY`XYf`: ]`a Yž`X]Y`i a `XYb dfYgh][ YhfÀW\h][ Yb`DfY]g`\_Àa dZYbž`i a ZUggh`K Yf\_Y`Ui g j YfgW\]YXYbYb`@ÀbXYfb`i bX`nY][ h`XUg`]bhYfbUh]cbU`Y`: `U]f`XYg : Ygh]j U`g"

K ]W\h][Y'GY\_h]cbYb'k]Y'I b'7YfhU]b'FY[UfXž'GcbXYfjcfZØ\fib[Yb'gck]Y'7]b\AZcbXUh]cb'\UVYb'YVYbZU``gY]b][Y'VYa Yf\_Ybgk YfhY'K Yf\_Y'Ui g[Yk\A\`hž'jcb'XYbYb'j]Y'Y'ni aYfghYb'A U``Ui Z'Y]bYf'gc`W\'VYXYi hYbXYb'6Ø\bY'df\AgYbh]YfhkYfXYb"'9]bY'i a ZUggYbXY'@]ghY'U``Yf':]`a Yž'X]Y']a 'cZZ]n]Y``Yb5i gk U\`dfc[fUa a '&\$\&\)'j YfhfYhYb'g]bXž'\_Ubb'Ui Z'XYf'K YVgY]hYXYg': Ygh]j U``XY'7UbbYg'Y]b[YgY\Yb'k YfXYb"

8 Y hU]`g	
JcfZU``	Gcbgh][Yg
Cfh	7UbbYgž: fUb_fY]WX
EiY``Yb	• k k k "Z]`a i b]j Yfg]hUYh"XY
	<ul><li>Yb"k ]_]dYX]U"cf[</li></ul>
	• k k k "ZYgh]j U`!WUbbYg"Wca

6 Ygi W Yb 'G]Y 'i bg 'Ui Z 'b!U[ "XY