

8] Y 'Vi b h Y 'Ni _i b Zh. '?] b X Y f '[Y g h U ` h Y b '] \ f Y G h U X h '] b 'C h h c d] U °

8]Y'?]bXYfghUXh'C hhcd]U']b'A U[XYVi f['Yfa Ò[`]W\h'V]g'&" 5i [i gh'_fYUh]j Yg'FY[]YfYb'i bX'9bhXYW_Yb'ZØf'?]bXYf'Ui g 9i fcdU"

9]b'6`]W_'Ui Z'X]Y'?]bXYfghUXh'Chhcd]U']b AU[XYVif[

 $= \text{NYbhfi a j cb'A U[XYVi f['YbhZU`hYhg]WX'Y]b'Y]bn][Ufh][Yg ? cbnYdhž'XUg'?]bXYfb'i bX' <math>\Rightarrow$ [YbX`]WXYb'X]Y'A $\text{O[`]WX}_Y]h'[]Vhž'X]Y' Fc``Yb'j cb'6Øf[Yfbž'9bhgWXY]Xi b[ghfÀ[Yfb'i bX'_fYUh]j Yb'? <math>\text{Od}ZYb$ ni 'ØVYfbY\a Yb''8]Y'?]bXYfghUXh'C hhcd]U'\Uh']\fY'DZcfhYb [Y $\text{OZZbYh'i bX'k}]fX'V]g'ni a '&''5i[i gh'Y]b'Cfh'gY]bž'Ub'XYa 'X]Y' <math>\Rightarrow$ [YbX'U_h]j'X]Y'; YgWX]W_Y']\fYf'Y][YbYb'GhUXh'`Yb_h''8]Yg']gh b]WXh'bi f'Y]b'Gd]Y'ž'gcbXYfb'Y]bY'h]YZ[fY]ZYbXY'@Yfbi a [YVi b[ž']bXYf'XYa c_fUh]gWXY'DfcnYggY'i bX'gcn]U'Y'JYfUbhk cfhi b[']a JcfXYf[fi bX'ghY\Yb''

8]Y; fi bX`U[Y'XYf'?]bXYfghUXh. DUfh]n]dUh]cb'i bX'?fYUh]j]hÀh

±0.10 hhcd]Urg]bXrX]Yr?]bXYfrX]Yr< Ui dhU_hYi fY"G]Yr[YghU`hYbr]\fY
GhUXhrgY`VghghÀbX][ri bXrYbhgWXY]XYbrØVYfrU``Yrk]WXh][Ybr5gdY_hY
XYgr@YVYbgrXcfh"8i fWXrFc``Ybr]brØVYfr(\$rj YfgWX]YXYbYbr6Yfi ZYb
`YfbYbrX]Yr1 b[Ybr6Øf[Yfžrk]Yrk]WXh][rHYUa UfVY]hri bXr_fYUh]j Y
DfcV`Ya `Ògi b[Ybrg]bX"r8]YrGd]Y`YfZU\fi b[YbrYfa Ò[`]WXYbrYg
]\bYbžrUi Zri b_cbj Ybh]cbY``YrK Y]gYra]hr<YfUi gZcfXYfi b[Yb
i a ni [Y\YbžrVY]gd]Y`gk Y]gYra]hrH\Ya Ybrk]Yr?`]a Uk UbXY``i bX
[YqY``qWXUZh`]WXYbr?f]qYb" <]Yfr_ÒbbYbrq]Yr: Y\`Yfra UWXYbr Y]b

YggYbn]Y``Yf'6YghUbXhY]``XYg'@YfbYbgž'XYf']b'XYf'\Yf_Òa a `]W\YbGW\i`V]`Xib['cZh'ni'_i fn'_ca a h"

=bhYfbUh]cbU`Y`Ni gUa a YbUfVY]h'ZÒfXYfh J]Y`ZU`h

9]b`\YfUi gfU[YbXYg`AYf_a U``XYf`?]bXYfghUXh`Chhcd]U`]gh`X]Y

\$\phYfbUh]cbU`]h\h'' 8]Y '9i fcd\halgw\Y'\rightarrow [YbXV]`Xi b[ggh\h)hY

AU[XYVi f['fp\s6A \(\text{LighfYVh`XUbUW\(\text{Z'GW\(\text{O}\)}\)Yf]bbYb`i bX`GW\(\text{O}\)Yf`Ui g

j YfgW\\]YXYbYb`@\hbXYfb`ni gUa a Ybni Vf]b[Yb"'\=a \(\text{J\\f'\&\\$\&\&}\)

UfVY]hYhY`XUg`HYUa 'a]h`: fY]k]``][Yb`Ui g`\text{OVYf'\&\\$'@\hbXYfb\'gck]Y}

a]h`?]bXYfb`Ui g`Dc`Yb`i bX`: fUb_fY]W\"\8]YgY`_i `hi fY``Y`J]Y`\text{ZU\h}

VYfY]W\\Yfh`b]W\\h'bi f`XUg`Dfc\Y_h\text{Z'gcbXYfb\'Z\OfXYfh`Ui W\`XUg

J Yfgh\hbXb]g`\text{Z\Of\i' bhYfgW\\]YX`]W\\Y'@\\V\bg\\Y\g\B\\Y\g\B\\)

8Ya c_fUh]gW\Y'DfcnYggY'gd]Y`Yf]gW\Yf`YfbYb

 $8]Y ??]b XYf]b `C hhc d] U `ghY ``Yb `: fU[Yb \check{z}`X]Y `ZØf`X Ug`Ni gUa a Yb`YVYb] b `Y] b Yf ; Ya Y] b gW UZh Yb hg W Y] XYb X `g] b X " G]Y `X] g_i h] Yf Yb \check{z}`k]Y]\ fY `GhUXh `cf[Ub] g] Yfh `k Yf XYb `gc ``hY \check{z}`k Y `W Y `8] Yb gh `Y] ghi b [Yb VYb Oh] [h `k Yf XYb `i b X `k]Y ; Yf Y W h] [_Y]h `]a `5 f V Y] hg`Y V Yb Ui gg Y \Yb `_Ub b " 8]Y `A O[`] W _Y]h \check{z}`]b `Y] b Ya `g] W Yf Yb `I a ZY`X `ni YI d Yf] a Ybh] Yf Yb `i b X `ni ``Yf b Yb \check{z}`] gh 'j c b `i b g W Ahn V Uf Ya `K Yfh `i b X ZOf X Yfh Y] b `h] Y Z Y g `J Yf gh Ab X b] g `ZØf` X Ya c_f Uh] g W Y `K Yfh Y `i b X 6 Ø f[Yf Yb[U[Ya Ybh]"$

?]bXYffUh. Gh]a a Y XYf Ni _i bZh

 $6YfY]hg'jcf'XYf'9fOZZbib[XYf'?]bXYfghUXh'hf]ZZh'g]WX'fY[Y`a~A`»][XYf'?]bXYffUhž'Y]b'; fYa~]ia~jcb'?]bXYfb']a~5`hYf'jcb'UWXh'V]g'%(\lambda \lambda \$

8]Y 6YXYi hi b[ZØf X]Y Ni _i bZh

B5;

8 YhU]`g

6Ygi WXYb G]Y i bg Ui Z b!U["XY