

## =gfUY``gWX`À[h'=fUb'dfÀj Ybh]j . '5`Ufa 'i bX 9l d`cg]cbYb']b'HY\YfUb°

=gfUY`ZØ\fh'Ua '%' "\$\*"&\$&) 'Y]bYb'DfÀj Ybh]j Ub[f]ZZ'[Y[Yb XYb'=fUb'Xi fW\"'5`Ufa ghi ZYb'ghY][Ybž'l G5'k UfbYb'j cf?cbZ] hYb"



HY\YfUbž:\(\frac{1}{2}\) Ub ! '5a ': fY]hU[a cf[Yb'\Uh'\(\frac{1}{2}\) Uh'\(\frac{1}{2}\) Uh'\(\frac{1}{2}\) Yb A]']h\(\hat{A}\) fUb[f]ZZ'Ui Z'XYb'\(\frac{1}{2}\) Ub Xi fW\(\frac{1}{2}\) fhz'XYf']b 'XYb'Zf\(\partial\) Yb Ghi bXYb'XYg'HU[Yg'ni '\YZh][Yb'9]d'cg]cbYb']b 'HY\YfUb'Z\(\partial\) fhY''

8 Yf'[YbUi Y'I a ZUb['XYf'5hhUW\_Y'V'Y]Vh'V]g'Ub['i b\_'\Uf'''8]Y
]gfUY`]gW\(\frac{1}{2}\) Yb '\Yf]W\(\hat{1}\) b'j cb''\UbXYgk Y]hYb'5`Ufa g]fYbYb\(\zeta\) X]Y'XUg'[YgUa hY'\(\vartial\) UbX']b'5`Ufa VYfY]hgW\(\uz\) UZh'j YfgYhnYb''

J YfhY]X][i b[ga]b]ghYf'\(\frac{1}{2}\) UYnY]bYb''\(\text{2}\) Uhn'\(\frac{1}{2}\) YxYb'5b[f]ZZ'U\'g df\(\at{1}\) Ybh]j Yb'GW\'\(\uz\) U['i bX'f]YZ'Y]bYb''\(\uz\) UbXYgk Y]hYb'GcbXYfbchghUbX Ui g'''\(\frac{1}{2}\) XYb'gcn]U'Yb'\(\at{1}\) Yb'\(\oz\) YYfY]hg'\(\at{1}\) Yyb'z'X]Y'\(\oz\) Yg\_U'\(\uz\) Uh]cb'XYf'G]hi Uh]cb'Xc\_i a Ybh]YfYb''

8]Y'AU»bU\aYb'=gfUY`g'kifXYb'U`g'FYU\_h]cb'UiZ'X]Y

ni bY\a YbXYb'GdUbbi b[Yb']b'XYf'FY[]cb'Yf[f]ZZYb"

DfYa ]Yfa ]b]ghYf'6Yb'Ua ]b'BYhUb'U\i '\Uh'gY]b

G]W\Yf\Y]hg\_UV]bYhh'Y]bVYfi ZYbž'k À\fYbX'? Uhn'j cf'Y]bYa

a Ò[`]W\Yb']fUb]gW\Yb'; Y[YbUb[f]ZZ'a ]h'FU\_YhYb'i bX'8fc\bYb

k UfbhY"'=b'X]YgYa 'Ni gUa a Yb\Ub['\Yi `hYb'`UbXYgk Y]h'X]Y

G]fYbYbž'i bX'X]Y'6Øf[Yf'k i fXYb'Ui Z[YZcfXYfhž'k UW\gUa 'ni
V`Y]VYb"

## =bhYfbUh]cbU`Y`FYU\_h]cbYb`i bX`K Ufbi b[Yb

 $8 ]Y T G!FY[]Yfi b[ ``Uh'=gfUY``]b ??Ybbhb]g'[YgYhnhž'XUgg'X]Y \\ J YfY]b][ hYb'GhUUhYb'b]WX h'X]fY_h'Ub'Y]bYa 'a O[`]WXYb \\ A ]`]hAfgWX`U[ '[Y[Yb'X]Y']fUb]gWXYb'5hca Ub`U[Yb'VYhY]`][ h'gY]b \\ k YfXYb''K A\fYbXT G!DfAg]XYbh'8cbU`X'Hfi a d'X]d`ca Uh]gWXY \\ 6Ya Ø\i b[Yb'ni f'@Ogi b[ 'XYg'?cbZ]_hg'VYhcbhž'k Ufbh'Yf \\ [`Y]WXnY]h][ '=gfUY`'j cf'Y]bYa 'VYXYi hYbXYb'?cbZ]_h']b'XYf'FY[ ]cb'' \\ Hfi a d'Ai *YfhYni XYa ž'XUgg'Y]b']gfUY`]gWXYf'5b[f]ZZ'Ui Z']fUb]gWXY \\ 5hca Ub`U[Yb'b]WXh'Ui g[YgWX`cggYb'gY]''8]YgY'K Ufbi b[ 'YfZc`[h j cf'XYa '<]bhYf[fi bX'j cb'6Ygcf[b]g'ØVYf'X]Y'5i gk Y]hi b[ 'XYf I fUbUbfY]WXYfi b[']a '=fUbž'X]Y'U`g'dchYbn]Y``Yg'F]g]_c'ZØf'XYb'6Ui j cb'5hca Vca VYb'[]`h''$ 

8]Y'9Id`cg]cbYb'ibX'X]Y'a]`]hÀf]gW\Yb'5\_h]cbYb'\UVYb'kY`hkY]hZØf'Ibfi\Y'[Ygcf[hž'ibX':]bUbn]bX]nYg'gck]Y':ihifYg'fYU[]YfhYba]h'Y]bYa'XYih`]W\Yb'9]bVfiW\'UiZ'X]Y'9bhk]W\_`ib[Yb"'9IdYfhYbkUfbYbž'XUgg'X]Y'G]hiUh]cb'ni'Y]bYa'aUgg]jYb'?cbZ]\_h']b'XYfFY[]cb'ZØ\fYb'\_ObbhYž'gc``hYb'X]Y'5b[f]ZZY'Zcfh[YgYhnh'kYfXYb"

## 8Yf = TUb i b X X ] Y 5 W g Y X Y g K ] X Y f g h U b X g

 Ui Z'=gfUY`'Ub"'8]YgY'G]hi Uh]cb'nY][h'X]Y'?ca d`YI]hÀh'XYf fY[]cbU`Yb'?cbZ`]\_hY'i bX'X]Y'i bhYfgWX]YX`]WXYb'=bhYfYggYb'XYf VYhY]`][hYb'5\_hYi fY"

: Øf'k Y]hYfY' ±bZcfa Uh]cbYb' ØVYf'X]Y'U\_hi Y``Yb'9fY][b]ggY']gh'Y]bY 6Yf]W\hYfghUhhi b['j cb'h!cb`]bY"XY'i bX'V`]W\_"W\gck]Y'5bU`mgYb ØVYf'X]Y'[Ycdc`]h]gW\Y'9]bcfXbi b['j cb'hU[YggW\Ui "XY Ya dZY\`Ybgk Yfh"

8YhU]`g	
J c f ZU``	HYffcf]ga i g
I fgUWX Y	A]`]hÀf]gWXYf'5b[f]ZZžJcfVYi[YbXYf'GWX`U[
Cfh	HY∖YfUbž <sup>·</sup> ≢Ub
Ei Y``Yb	<ul><li>k k k "h!cb`]bY"XY</li></ul>
	• k k k "V`]W <u>_</u> "W\
	• kkk"hU[YggW\Ui"XY