

# ARTS3821

H\Y'Dc`j]Wg'cZ ÷Ybh]m]j b'h\Y'&%gh7Ybhi fm

H\Yfa " z&\$&&

7ci fgY`Cj Yfj ]Yk

GhJZZ'7cbhJWw'8YhU]`g

7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]fm	@cWlhcb	D\cbY
8f`DYbbm; fjZ]b	<a href="#">gcgg4 i bgk "YXi "Ui</a>	D`YUgY`Ya U]`hc UffUb[ Y`Ub Uddc]bha Ybh'		
5bXfY`BUgg]f]	<a href="#">gcgg4 i bgk "YXi "Ui</a>	D`YUgY`Ya U]`hc UffUb[ Y`Ub Uddc]bha Ybh'		

GW\cc``7cbhJWw`bZcfa Uhjcb

GW\cc``cZGcWU`GWYbWg

Fcca `%) -

A cfj Yb`6fck b`7 &\$

Ya U]`.gcgg4 i bgk "YXi "Ui

d\cbY. '\$&-' , ) `)% \$+

5W\_bck `YX[ Ya YbhcZ'7ci blfm

I BGK '5fjz8Yg][ b'UbX'5fWk]fYWi fY'Ybg]b[ hcb'UbX'DUXX]b[ hcb'Wla di gYg'UfY'Vi ]hcb'5Vcf][ ]bU`

7ci fgY'8YHJ]`g

I b]hg'cZ7fYX]h\*`

Gi a a UfmcZ`hY'7ci fgY

9bWca dUgg]b[ 'U]j Uf]YfmcZ]ha Y'mz[ `cVU`mfY'Yj Ubh'cd]Mgž'fYZYVWYX'h'fci [ \ 'j Uf]ci g'jXYbh]m'YbgYgž ]bW' X]b[ 'h'cgY'cZfUWVZ[ YbXYfžgYI i U]mž'W'hi fY'UbX'WUggž'mci 'k ]`cc\_`WcgY'm]b'h]g'Vci fgY'Uh'hY ]b'h'fgYVW]cb'cZgcWU`jXYbh]mž'dc`]h]Vgž'UbX'[ c] Yfb'UbVW`'Mci 'k ]`VY'Ug\_YX'hc'h]b\_`WUfYZ `mUVci h Wca d'YI 'UbX']b'h'UWU'V'ei Yg]h'cbg'cZ]XYbh]mž'Vc`YVW]j ]mž'gcWU`'gh]VW'UbX'[ c] Yfb'UbVW`'Mci 'k ]` ]b'h'f'fc[ UH'`ck ]XYbh]h]Yg'UfY'YI dYf]YbVW'X'dc`]h]WU`nž'UbX']b'dUf]h]W'Uf'Vc'b'h]I hgž'UbX'k ]`XfUk 'cb dUf]h]W'Uf'YI Ua d'Yg'Zca 'h'fci [ \ 'ci h'h'Y'k c'f'X'hc'YI Ua ]bY'`ck 'j Uf]ci g'dc`]h]Vg'cZ]XYbh]mž]bW' X]b[ 'h'Y gW'c'Uf'm]UbX'di V`]WXYVU'Hg'h'Ym'Uj Y'df'c]c\_YXž'Uj Y'Ya Yf[ YX'hc'VW'U'Yb[ Y'Xca ]b'Ubh]XYUg'UVci h gcWU`'gh]VW`'ck UfY'jXYbh]m]UbX'VY'cb[ ]b[ 'g'UdYX']b'h'Y'Vc'b'h]a dc'fUf'mk c'f'X'3'ck 'Xc'gc!WU`YX bU]h'cb]g]h]Yg'Yb[ U[ Yž'c'f'b'c]ž'k ]h' h'Y'dc`]h]WU`WU]a g'cZ'c'd'f'YggYX'gcWU`'fci dg'3'G'ci 'X'W]h]Ybg'U'd'g]h` VY'h'Y'Zci bXU]h'cb'Zc'f'UXX'fYgg]b[ ]XYbh]m]WU]a g' ]b'XYa c'WUW]Yg'3'8'cYg'U'b'U]h'cb]g]h]Y'Uj Y'U'f][ \ h'hc d'f'c'h'W]h]g'`b'U]h'cb'U`jXYbh]m]h'fci [ \ 'f'Yg'h]VW]j Y'ja a ][ fU]h'cb'dc`]M]Yg'3'K \ U]h]g'h'Y'f'Y'U]h'cbg'U'd'VY'h'Y'Yb b'U]h'cb'U]ga ž'fUW'UbX'gYI i U]mž'<ck 'Xc'h'Y'a YX]U'UbX'dc'di 'Uf'W'hi fY'ja dUW'h'h'Y'dc`]h]WU`f'YVc[ b]h]cb'cZ Y'h]b]V]mž[ YbXYfž'WUgg'UbX'W'hi fY'3'6'm]YI d'c'f]b[ \ 'ck ]XYbh]h]Yg'UfY'Vc'b'g]h]i h'YX'UbX'g]h] UH'YX']b'hc'XU]t'g \ ][ \ 'ma cV]Y'UbX']b'h'f'Vc'b'Y'WYX'k c'f'X'ž'mci 'k ]`a U\_Y'mci f'ck b'XYW]g]cbg'UVci h'`ck 'h'Y'gY'jXYbh]h]Yg g'UdY'k c'f'X'dc`]h]Vg'UbX'k \ U]ž'Zc'f'mci ž'UfY'h'Y'a c'gh'd'f'Ygg]b[ 'ei Yg]h'cbg'h'Y'fY]b`

Gi V'Y'W'h]5'fYU'`Dc`]h]Vg'UbX'`b'h]f'U]h'cb'U`F'Y'U]h'cbgž

7ci fgY'@YUfb]b[ 'Ci hWca Yg

- % 8 YgW]VY'UbX'YI d'U]b'h'Y'dc`]h]WU`ž'gcWU`UbX'W'hi fU`X]a Ybg]cbg'cZ]XYbh]m]b'`i a Ub fY'U]h'cbg'U'dg'U'h'h'Y'g]h]Uf'hc'Z'h'Y'&%gh'VW'bi f'm'
- &" ÆXYbh]m]UbX'ci h]bY'h'Y'Vc'b'h]g'h'X'UbX'X]j YfgY'W'Uf'UWY'f'cZ]XYbh]m]dc`]h]Vg'Uh[ `cVU'ž'cWU`UbX Yj Yf'm]U'm'Yj Y'g'cZ'k c'f'X'dc`]h]Vg`
- ' " 9j U'i UH'U'j Uf]YfmcZ]UX] UbVW'X'YVU'Hg'c'b'UbX'Udd'f'c'UW'Yg'hc'ei Yg]h'cbg'cZ]XYbh]m]b'k c'f'X dc`]h]Vgž]b'Z'fa YX'Vm]U'gY'Z'f'Y'ZYI ]j Y'Uk Uf'Yb'Ygg'cZ'h'Y'f'Y'Ug'cb'YX'j ]Yk g'cZ'c'h'Y'fg'UbX'i g]b[ 'U j Uf]YfmcZ'Vc'b'VW'd'gž'h'Y'c'f]Yg'UbX'WU]h'Y'c'f]Yg'cZ'Ub'U'm]g]g`
- (" @cWU]h]ž'd'f'c]f]h]gY'UbX'Udd'm]Udd'f'c]f]U]h'Y' ]b'Z'fa U]h'cb' ]b'UbX'hc'`Dc`]h]Vg' ]b'U'g'cd'U]g]h]WU]h'X'UbX d'Y'f'gi U]g]Y'a Ubb'Y'fž'i g]b[ 'WY'Uf'UbX'Y'Z'Y'W]j Y' ]b'XY'd'Yb'XYbh'f'Y'g'Y'Uf'V'X'ž'V]h]WU`f'Y'Ug'cb]b[ 'UbX gW'c'Uf'mk f]h]b[ 'g\_]`g`

HYUW]b[ 'G'h]U]h'Y[ ]Yg`

H'Y'Vci fgY' ]g' ]h]i [ \ h'h'fci [ \ 'U'a ]I hi fY'cZ'k Y'Y\_m]h'h'f'Y'`ci f'gYa ]b'U'f'g'UbX'cb' ]bY'`Y'Ufb]b[ 'UW]j ]h]Yg`'Mci k ]`UXX'f'Ygg'h'Y'`Y'Ufb]b[ 'ci hWca Yg'h'fci [ \ 'h'c'fci [ \ 'cb' ]bY'UbX'gYa ]b'U'f'd'f'Y'd'U'f'U]h'cb'UbX'd'U'f]h]W'd'U]h'cbž d'i g'h'Y'h]a Y'migi Va ]gg]cb'cZ'Vci fgY'Ugg][ ba Yb'hg`" H'Y'Vci fgY'`Ug'V'Y'Yb'X'Yg][ b'YX'hc'Yb[ U[ Y'mci ]b'U W'ff]W'`i a 'cZ]b'XY'd'Yb'XYbh'UbX'f'Y'Z'Y'W]j Y'`Y'Ufb]b[ ž'Yb'Vci fU[ ]b[ 'W]h]WU`'h]b\_]b[ 'h'fci [ \ ]b'Z'ca YX'gYa ]b'U'f'd'f'Y'd'U'f'U]h'cb'UbX'X]gW'gg]cb'V'Ug'YX'cb'[ i ]X'YX'f'Y'U]b[ 'UbX']b'XY'd'Yb'XYbh'UbX'X]f'Y'WY'X'f'Y'g'Y'Uf'V'X`" GYa ]b'U'f'gž cb' ]bY'UW]j ]h]Yg'UbX'Ugg'Y'gga Yb'hg'Yb'Vci fU[ Y'mci 'hc'X'Y'd'Yb'mci f'W]h]WU`f'Y'Z'Y'W]cb' ]b'U'f'Y'Ug'cZ'd'U'f]h]W'U'f ]b'h'f'Y'g'h]k \ ]Y'h'Y' ]b'h'f'Y'g'W]cb'U'`b'U]h'f'Y'cZ'Vci fgY'h'Y'a Ygž'gYa ]b'U'f'hc'd]Mg'UbX'k'Y'Y\_m]cb' ]bY'UW]j ]h]Yg f'Yei ]f'Y'g'mci 'hc'V'f'c'U'X'Y'b'mci f'W]h]WU`W'd'U]h]m]U'W'c'gg'Vci fgY'Vc'b'h]b'h]': Y'Y'X'V'U'W\_]g'd'f'c]j ]X'Y'X'h'fci [ \ 'ci h h'Y'Xi fU]h'cb'cZ'h'Y'Vci fgY' ]b'U'a Y'Ub]b[ Z `UbX'h]a Y'mia Ubb'Y'f`Mci f'UW]Y]j Ya Yb'h'cZ'h'Y'`Y'Ufb]b[ ci hWca Yg'cZ'h]g'Vci fgY' ]g'WY'Uf'm]X'Ya cb'g]h]U]h'X'h'fci [ \ 'mci f'Y'b[ U[ Ya Yb'h]k ]h' Vci fgY'a UH'f]U'ž'h'Y ei U]m]cZ'h'Y'd'f'Y'g'Yb'U]h'cb'cZ'mci f'jXY'Ug'UbX'X]gW'gg]cb'UbX'mci f`Yj Y`cZ'UW]Y]j Ya Ybh]b'Vci fgY

UggYgga Ybh'5''UggYgga Ybhg]b'h.]g'Wci fgY'UfY'XYg][ bYX'hc'gi ddcfhhYgY''YUfb]b[ 'ci hWca Yg''GYa ]bUf  
X]gW'gg]cbg'k ]''VY'Vch'ghi XYbh'UbX'YXi WUhc'f!YX'UbX'VUgYX'cb'WUfYZ ''dfYdUfUf]cbZ'hY'Wca d'Yf]cb  
cZcb' ]bY!ZUW] ]hYX'UW]j ]hYgZ'WcgY'fYUX]b[ g'UbX'hY'UbU'mg]g'cZfY'Yj Ubhidf]a UfmUbX'gYWcbXUfm  
gci fW'g"

H\Y'XYg][ b'cZ'hY'hYUW]b[ 'a cXY'UbX'WcbUW'h'ci fg'fYZYWh'Vch'U'Wca a ]ha Ybh'hc'ZUW'hc'ZUW'hYUW]b[  
UbX'Yb[ U[ Ya Ybhk ]h'j Uf]ci g'UgdYW'g'cZV'YbXYX''YUfb]b[ žUg'ci h]bYX' ]b'hY'! BGK '&\$&)'GfUfY[ m  
H\Ya Y'5&'9Xi WU]cbU'9I W''YbW"

## 5ggYgga Ybh

5`mci f'k f]HYb`UggYgga Ybhg`]b`5F HG', &%a i ghVY`Zcfa UHYX`UWwFX]b[ `hc`hY`<Ufj UFX`gmghYa`cZ fYZfYbW]b[ `zUg`Zci bX`]b`hY`[ i ]XY`]bYg`]b`hY`GWXcc`cZGcW]U`GWYbWfj`F YZfYbW]b[ `; i ]XY`H\]g`]g Uj U]UV`Y`Uh

[\hfdg.#k k k "Ufng"i bgk "YXi "Ui #g\]hYg#XYZji`hZ\]Yg#xw a Ybhg#GcGGSF YZfYbW\]b\[ S: i \]XYS&\\$%- "dXZ" #\]g Ugc`cb`hY`A ccX`Y`dU\[ Y`Zc`f`5F HG' , &%UbX`g`lci`X`VY`W`bgi`hYX`Zc`f`U`fYZfYbW\]b\[ `iei`Yf\]Yg"](#)

A ccX`Y`]g`U`\_YmfYdcg]hcfmcZ]bZcfa Uh]cb`Zc`f`h`g`W`i`fgY`"Mci`g`lci`X`VY`W`YW\_]b[ `hY`5F HG' , &%A ccX`Y`g]HY`fY`[ i `Uf`mf`U`h`Y`UghXU]m`

5bm]bZcfa Uh]cb`W`a`a`i`b]W]hYX`X]fYW]m]h`mci`h`fci`[ \ `Ya`U]`k`]`VY`g`Yb]h`mci`f`i`b]`Yfg]m]Ya`U]`UWw`i`b`h`#]g`U`i`b]`Yfg]m]fYei`]fYa`Yb]h`U]mci`fYUX`Ya`U]`g`Yb]h`h`h`g`UXXfYg`"D`Y`UgY`fYUX`[\hfdg.#gh XYb\]h`i`bgk`"YXi`"Ui`#Ya`U\]`\]fi`Yg`UbX`W`b`f`U`W\]i`BGK`#H`f`\[\hfdg.#k k k "a`n\\]h`i`bgk`"YXi`"Ui`#Yfj`\\]Wg`#gh`XYbhg`L`\\]Zmci`UfY`i`bWYUf`cb`i`g\\]b\\[ `cf`fYX\\]fYW\\]b\\[ `mci`f`Ya`U\\]`"\]\(#\)](#)

K`Y`k`]`gdYbX`gca`Y`h`a`Y`]b`W`Ugg`h`c`[`Y`h`Y`f`X]gW`gg]b[ `UbX`d`Ubb]b[ `mci`f`UggYgga`Ybhg`]b`5F HG' , &%H\]g`]g`dUf]hm`k`m`U`h`Y`b`X`U`b`W`]b`h`]g`W`i`fgY`]g`gc`]a`dc`f`U`b`h`"

8c`d`Y`UgY`a`U`\_`Y`gi`fY`mci` \ `Uj`Y`a`UXY`mci`fgY`Z`Z`m`Uk`UfY`c`Z`U`fY`Yj`Ub]h`c`]W]Yg`W`b`W`f]b]b[ `fYZfYbW]b[ `z`UW]XYa`]W]cb`Yg]m]UbX`d`U[ ]Uf]ga`z`UbX`h`Y`U`h`Y`gi`Va`]gg]cb`c`Zk`cf`\_`[\hfdg.#gh XYb\]h`i`bgk`"YXi`"Ui`#dc`\]W\]t`"](#)

5ggYgga Ybh]Ug_	K`Y][` \`h`	8i`Y`8U]Y`	7ci`fgY`@YUfb]b[` Ci`h`W`a`Yg`5ggYggYX`
%`9ggUm]d`Ub`	(`\$i`	\$`+`#`/\$`#`&`\$`&&`%`%)` -`DA`	&
&`F`YgYUfW`9ggUm`	*`\$i`	&`%`#`%`/\$`#`&`\$`&&`%`%)` -`DA`	%`z`'`z`(`

## 5ggYgga Ybh`%`9ggUm]d`Ub`

5ggYgga Ybh`Yb[`h.`%z)`\$`\$`k`cfXg`  
8i`Y`XU]Y`. `\$`+`#`/\$`#`&`\$`&&`%`%)` -`DA`

%z)`\$`\$`k`cfX`YggUm]d`Ub`"Mci`k`]`fYW]j`Y`k`f]HYb`ZYXVUW`z`U`W`a`d`Y`h`X`fi`Vf]W`UbX`U`bi`a`Yf]W]`[`fUXY`h`fci`[ \ `A`ccX`Y`k`]h`]b`h`k`c`k`YY`\_`g`c`Zgi`Va`]gg]cb`c`Z`h`g`Ugg][`ba`Ybh`

H\]g`Ugg][`ba`Ybh]g`gi`Va`]hYX`h`fci`[ \ `Hi`fb]h]b`UbX`gh`XYbhg`W]b`g`YY`Hi`fb]h]b`g]a`]Uf]m]fYdc`f]g`"

## 5XX]h]cbU`XYH]g`

:`cf`h`]g`UggYgga`Ybh`mci`a`i`ghdfcj`XY`U`fYgYUfW`ei`Ygh]cb`UbX`YggUm]d`Ub`"Mci`f`d`Ub`a`i`ghVY`bc`a`cfY`h`Ub`%z)`\$`\$`k`cfXg`UbX`a`i`ghci`h]bY`hY`ghfi`W]i`fY`UbX`]bX]W]hY`hY`W`b`hY`b`h`c`Z`mci`f`F`YgYUfW`9ggUm]mci`f`d`Ub`a`i`ghgdYW]Zm]Ub`]bX]W]h]j`Y`V]V`]c[`fUd`m`c`Z`h`b`fY`Yj`Ub]h`UbX`Udd`f`c`d`f]U]h`z`d`Y`Y`f]fY`j`Yk`YX`UW]XYa`]Wgci`fW]g`"H\Y`U]a`c`Z`h`]g`Y]i`YfW]gY`]g`h`c`Yb`W`i`fU[`Y`mci`h`c`VY`[`]b`h`]b`\_]b[ `Uvc`i`h`UbX`d`Ubb]b[ `h`Y`h`Y`c`f`Y`h]W]`UbX`Ya`d]f]W]`Zci`b`X`U]c`b`g`c`Z`mci`f`F`YgYUfW`9ggUm]z`k` \`Y`Yb[`U[`]b[ `k`]h`fY`Yj`Ub]h`UW]XYa`]W]hY`fU]h`fY`":`i`""[`i`]XY`]bYg`cb`hY`Zcfa`Uh`UbX`gi`Va`]gg]cb`c`Z`h`Y`UggYgga`Ybh`UfY`Uj`U]UV`Y`cb`hY`5F`HG' , &%A`ccX`Y`dU[`Y`"

## 5ggYgga Ybh`&`F`YgYUfW`9ggUm`

5ggYgga Ybh`Yb[ h\.' z\$\$\$'k cfXg  
8i Y`XUHy. :&#%#&\$&&%%) - `DA

' z\$\$\$'k cfX`YggUm`Mci `k ]`fYW]j Y`k f]hyb`ZYXVUW`zU`Wca d`YhX`fi Vf]W`UbX`U`bi a Yf]WU`[ fUXY`h\fc [ \ A ccX`Y`k ]h]b`tk c`k YY\_g`cZgi Va ]gg]cb`"H\]g`]g`h\Y`Z]bU`UggYgga YbhicZ`h\Y`Wci fgY"

H\]g`Ugg][ ba Ybh]g`gi Va ]hYX`h\fc [ \ `Hi fb]h]b`UbX`ghi XYbhg`W]b`gYY`Hi fb]h]b`gja ]Uf]mfYdcftg"

5XX]h]cbU`XYHJ]g

: cf`h\]g`UggYgga Ybh`z`mci `a i gh]XYbh]ZmUb`Ya d]f]WU`cf`h\Yc`fYh]WU`UfYU`cZ]bhYfYgh`z`XYj ]gY`U`gi ]hUV`Y` fYgYUfVX`ei Ygh]cb`ffYj ]g]b[ `]b`]bY`k ]h`ZYXVUW`cb`mci f`9ggUmD`UbE`UbX`dfcXi W`U`Wc`YfYbh`UbX` dYfgi Ug]j Y`Uf[ i a YbhicZ` z\$\$\$'k cfXg`h\UhYb[ U[ Yg`k ]h`h\Y`Wc`fY`h\Ya Yg`UbX`]ggi Yg`cZ5F HG' , &%`Mci k ]`VY`UggYggYX`cb`mci f`UV]`]mhc`XYa`cbgfUHy`fYgYUfVX`g\_]`g`f`h\Y`UV]`]mhc`dfcj ]XY`UWVW`fUHy` UbX`XYHJ]YX`]bZcfa`Uh]cb`UVci`hmc`i f`VX`cgYb`hcd]WUbX`fY`Yj`UbhW]gY`ghi X]YgEz`cb`gmb`h`Yg]g`UbX` `dYfgi Ug]j Y`Uf[ i a Ybh]f]b`Vf]b[ ]b[ `hc[ Yh\Yf`]XYUg`UbX`XUHu`Zca`gYj`YfU`gci f`WgEz`cb`h\Yc`fYh]WU` i bXYfgh`UbX]b[ z`cb`ei U`]mhcZ`dfYgYbh]h]cb`f]bW`X]b[ `UWVW`fUHy`fYZ`fYbW]b[ E`UbX`cb`h\Y`WUf]mhcZ`mci f k f]h]b[ "": i ` ` [ i ]XY`]bYg`cb`h\Y`Zcfa`Uh`UbX`gi Va ]gg]cb`cZ`h\Y`UggYgga YbhUfY`Uj U]UV`Y`cb`h\Y` 5F HG' , &%A ccX`Y`dU[ Y"





K YY_%. % ( Bcj Ya VYf	GYa ]bUf	>i ghW`UbX`F YW[ b]hcb
!`% `Bcj Ya VYf	5ggYgga Ybh	K YY_`%%f&%ghBcj Ya VYf!5ggYgga Ybh&. F YgYUfW` 9ggUm

F Ygci fWg

DfYgW]VYX F Ygci fWg

5`fYei ]fYX`UbX`fYWca a YbXYX`fYUX]b[ g`Zcf`5F HG' , &%UfY`Uj U]UV`Y`cb`hY`Wci fgY`A ccX`Y`dU[ Y`

F YWca a YbXYX`F Ygci fWg

D`YUgY`gYY`A ccX`Y`Zcf`U`Z` ``]ghcZU`fYei ]fYX`UbX`fYWca a YbXYX`fYUX]b[ g`F`Y`Yj UbhWci fgY`  
fYgci fWg`UbX`gi V`Y`Wh[i ]XYg`Wb`U`gc`VY`U`W`W`ggYX`h`fci [ \`h`Y`i` BGK` `@]VfUfm`  
[f`h`tdg`#`gi`V`Y`W`f`i`\]X`Y`g`"V`f`U`f`m`i`b`g`k`"Y`X`i`"U`i`#`W`c`i`f`g`Y`f`Y`g`c`i`f`W`g`\]g`h`g`#`U`J`W`h`Y`g`#`U`j`g`k`"M`c`i`g`l`c`i`X`W`c`b`g`i`h`h`Y`  
@\]VfUfmfY\[ i`U`f`m`Z`c`f`U`X`U`h`U`V`U`g`Y`Z`Y`c`i`f`b`U`UbX`gi V`Y`Wh\[i \]XY`\]bei \]f\]Yg`](#)

7ci fgY`9j U`i`Uh]cb`UbX`8Yj`Y`cda`Ybh

Gh XYbhYj U`i`Uh] Y`Z`Y`X`V`U`W`\_`]g`[ U`h`Y`f`Y`X`Z`c`f`a`U`m`i`g]b[ `i` BGK` f`g`A`n`l`d`Y`f]YbW`gi`fj`Ym`  
a`Y`W`U`b`]g`a` [f`h`tdg`#`gh`X`Y`b`h`i`b`g`k`"Y`X`i`"U`i`#`a`n`l`d`Y`f\]YbW`k`"M`c`i`U`f`Y`U`gc`j`Y`f`m`k`Y`W`c`a`Y`U`b`X`Y`b`W`c`i`f`U`\[`Y`X`h`c`  
d`f`c`j`\]X`Y`Z`Y`X`V`U`W`\\_`\]b`Z`c`f`a`U`m`z`X`\]f`Y`W`h`m`h`c`m`c`i`f`5`F`H`G`' , &%7`c`i`f`g`Y`7`c`b`j`Y`b`c`f`"M`c`i`f`W`c`b`g`h`f`i`W`h`j`Y`Z`Y`X`V`U`W`\\_`\]g`  
\]b`W`Y`X`\]V`m`\]a`d`c`f`h`U`b`h`z`V`c`h`X`i`f\]b\[ `h`Y`W`c`i`f`g`Y`U`b`X`U`Z`Y`f`\]h`\]g`W`c`a`d`Y`h`X`z`U`b`X`\]g`i`g`Y`X`h`c`\[ `i`\]X`Y`h`Y`X`Y`g`\]\[`b`z`  
f`Y`j`\]Y`k`U`b`X`\]a`d`Y`a`Y`b`h`U`\]c`b`c`Z`5`F`H`G`' , &%U`h`U`g`h`U`\[`Y`g`"D`Y`U`g`Y`X`c`f`Y`a`Y`a`V`Y`f`k`Y`b`d`f`c`j`\]X`\]b\[ `Z`Y`X`V`U`W`\\_`h`c`  
g`h`U`Z`U`h`l` BGK` `h`U`h`m`c`i`U`f`Y`g`d`Y`U`\\_`\]b\[ `h`c`l`i`a`U`b`V`Y`\]b\[ g`U`b`X`h`U`h`m`c`i`f`k`c`f`X`g`l`U`j`Y`U`b`\]a`d`U`W`h`](#)



## 5 WUXYa ]W< cbYgmiUbX`D`U[ ]Uf]ga

D`U[ ]Uf]ga `]g`i g]b[ `hY`k cfXg`cf`]XYUg`cZchYfg`UbX`dFYgYbh]b[ `hYa `Ug`mci f`ck b`" #WUb`hU`Y`a Ubm  
Zcfa gZ`Zca `XY`]VYfUHY`WXYUH]b[ `hc`UWV]XYbhU`mWc`dm]b[ `Zca `U`gci fW`k ]h`ci hUW`bck `YX[ Ya Ybh`

I BGK `[ fci dg`d`U[ ]Uf]ga `]bhc`hY`Zc`ck ]b[ `WUHY[ cf]Yg.

- 7cdm]b[ .`I` g]b[ `hY`gUa Y`cf`j Yfmig]a ]Uf`k cfXg`hc`hY`cf][ ]bU`hYI hcf`]XYU`k ]h`ci hUW`bck `YX[ ]b[  
hY`gci fW`cf`i g]b[ `ei chU]cb`a Uf`g`"H`]g ]bWi XYg`Wc`dm]b[ `a UHYf]U`gZ`]XYUg`cf`Wc`bW`dhg`Zca `U  
Vcc`\_`z`Uf]WY`Z`fYdcf`ic`f`chYf`k f]hYb`XcW`a Ybh`Z`dFYgYbhU]cb`Z`Wc`a dcg]h]cb`Z`Uf`k cf`\_`z`XYg][ bZ  
XfUk ]b[ `z`W]fW ]h`mZ`Wc`a di hYf`d`fc[ fUa `cf`gc`Zk UfY`Z`k YVg]hY`Z`]bhYfbYh`Z`chYf`Y`YVW`fcb]WfYgci fW`Z`cf  
Ubc`hYf`dYfgcb`f]Ugg][ ba Ybh`k ]h`ci hUdd`fcd`f]UHY`UW`bck `YX[ Ya Ybh`
- #Udd`fcd`f]UHY`dUf`Ud`fUg]b[ .`7`Ub[ ]b[ `U`Z`k `k cfXg`UbX`d`fUgYg`k`\\]Y`a cgh`mi`fY`hU]b[ `hY

## 5 WUXYa ]WbZcfa Uh]cb

8i Y'fc'Yj c'] ]b[ 'UXj ]W'VmB GK ' < YU'hž'gh XYbh'ia i gh'WXYW'Zcf'i dXU'YX' ]bZcfa Uh]cb'fY[ UfX]b[ 'cb' ]bY 'YUfb]b[ 'Zcf'U''5fngž8Yg][ b'UbX'5fW]h'W' fY'W'ei fgYg'h'g'h'fa 'fj ]U'A ccX'Y'cf'W'ei fgY' ]bZcfa Uh]cb dfcj ]XYX'

D'YUgY'gYY. '[hdg.##k k "i bgk "YXi "Ui #Jfng!XYg\]\[ b!UfW \]h'W' fY#gh XYbh' \]Z#Ygci fWglgi ddcf#dfch'W'gl \[i \]XY' \]bYg'Zcf'YggYbh\]U'gh XYbh\]bZcfa Uh\]cb'fY'Uh\]b\[ 'fc.](#)