



ARTS2458

5`cb[`h\Y`G]`_F cUX. `7 cbei Yfcfgž`HfUXYfg`UbX`9I d`cfYfg

Gi a a Yf`##`&\$&%

7ci fgY`Cj Yfj]Yk

GHJZ`7cbHJW`8YHJ]`g

7cbj Ybcfg

7ci fgY'8YHJ]`g

7fYX]hDc]bmg`*`

Gi a a UfmicZ`h`Y'7ci fgY

H\Y'G]_F cUXg' UfY'cZAYb`W`bg]XYfYX'hc`VY`h`Y'k`cfX'g'[fYUHYghbYfk`cf`cZ`h`fci [\k`Um`g`h`U`h`]b`_YX`
7` \]b`U`h`c`h`h`Y`A`YX]h`f`f`U`b`Y`U`b`k`cfX'cj`Yf`U`b`X`U`b`X`g`Y`U`"H\Y'\]g`h`c`f]W`U`X`Y`j`Y`c`d`a`Y`b`h`c`Z`7`\]b`Y`g`Y`W`h`i`f`Y`U`b`X`
W]j`j]n`U`h`c`b`W`U`b`b`c`h`V`Y`g`W`f`i`h`b]n`Y`X`k`]h`c`i`h`U`f`Y`Z`Y`W`j`Y`i`b`X`Y`f`g`h`U`b`X]b[`c`Z`h`Y`7`\]b`Y`g`Y`9`a`d]f`Y`g`X`m`b`U`a`]W`
]b`h`f`U`W]c`b`g`k`]h`h`Y`b`c`a`U`X]W`d`Y`c`d`Y`g`U`b`X`h`Y`K`Y`g`h`f`b`k`cfX`h`U`h`k`Y`f`Y`g]h`i`U`h`X`U`c`b[`h`Y`G]_F`c`U`X`" `b`
h`j`g`W`i`f`g`Y`z`m`c`i`k`j`Y`I`U`a`]b`Y`h`Y`[`Y`c`d`c`]h]W`U`b`X`W`h`i`f`U`U`b`X`g`W`U`d`Y`g`c`Z`9`i`f`U`g]U`h`Y`a`][`f`U`h`c`b`c`Z`
d`Y`c`d`Y`g`/`U`g`k`Y`U`g`h`Y`g`d`f`Y`U`X`c`Z[`c`c`X`g`z`f`Y`][`]c`b`g`z`]X`Y`U`g`z`h`W`b`c`c[`]Y`g`z`U`f`h`U`b`X`X]g`Y`U`g`Y`g`V`Y`h`k`Y`Y`b`h`Y`

5ggYgga Ybh

5ggYgga YbhHUg_g

5ggYgga YbhHUg_	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
9ggUmi) \$i	&- #\$\$#&\$&\$'%'\$.\$\$.DA	%ž'&ž' ž(ž)
C b`]bY`hYgh) \$i	\$* #&\$#&\$&\$'%%\$\$.5A	%ž' ž(

5ggYgga Ybh8YHU]`g

5ggYgga Ybh%`9ggUm

GHUfhXUHŸ. `Bch5dd`]WUV`Y

@Yb[h. .` \$\$\$`k cfXg`f%\$i ``YYk UrŁ

8YHU]`g.

Gh XYbtg`k f]h`Ub`YggUmVUgYX`cb`]bXYdYbXYbhfYgYUfW`fWU```` \$\$\$`k cfXgŁ``: YYXVUW`j]U`]bX]j]Xi U`
Wta a Ybtg`UbX`fi Vf]W

5XX]h]cbU`XYHU]`g.

GYY`A ccXY`Zcf`XYHU]`g

5ggYgga Ybh&. `C b`]bY`hYgh

8YHU]`g.

C b`]bY`hYghWŁj Yf]b[`WUgg`WŁbhYbh`H\Y`hYghk]``Ugh*\$`\$`a]bi`hYg``: YYXVUW`j]U`]bX]j]Xi U`Wta a Ybtg`UbX`
fi Vf]W

5XX]h]cbU`XYHU]`g.

GYY`A ccXY`Zcf`XYHU]`g

5 H\YbXUbW\F Yei]fYa Ybhg

Gh XYbhg'UFY'ghfcb['mYbWci fU[YX'hc'UhhYbX'U''WUggYg'UbX'fYj]Yk ''YWhi fY'fYWc'fX]b[g"

7 ci fgY'GWXYXi `Y

[J \]Yk 'WUgg'hja YhUVY](#)

Hja YhUV`Y`

8UhY	HmdY	7cbhYbh
A cb"% ' >Ub'&&&'%\$. \$\$! '%&.\$\$	@YWhi fY	5 '[YbYFU'']bhfXci W]cb'hc'hY'G]_ 'F cUX <ul style="list-style-type: none">• H\Y'YWc'c[]W' Wc'bx]h]cbg• A U'cf'hYfa]bc'c[]Yg'fY'UhYX'hc'dYcd'Ygž d'UW'gž'UbX'Ya d]fYg
A cb"% ' >Ub'&&&'%(.\$\$! '%*.\$\$	@YWhi fY	5''UVci h'h]g'Wci fgY -bhfXci W]cb'hc <ul style="list-style-type: none">• H\Y'ghfi Whi fY'cZ'hY'Wci fgY• 5ggYgga Ybh'Ug_g• 5H\YbXUbW
Hi Y"% ' >Ub'&&&'%\$. \$\$! %&.\$\$	@YWhi fY	9i fUg]Ub' Bca UXg <ul style="list-style-type: none">• GhUHY'Z'fa Uh]cb']b'hY'ghY'ddYg'k]h'Ub Ya d\Ug]g'cb'hY'A cb[c''9a d]fY

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

5``a UXY`Uj U]UV`Y`cb`A ccX`Y

F YWca a YbXYX`F Ygci fWg

6cc_`A]`k UfXz>Ua Yg`5zFZWE [f DaSV , S HWk E Zaf;` fcaVgUf[a` fC I ZcfX`I b]j Yfg]mDfYggz`&\$% 7! I BGK `@]VfUfmicb`]bY`UWwgg.

`\hdg.# k k !j Yfmg\cfh]bfci Xi W]cbg!Wca "k k k dfcl cX%oo b) fh hf b g X c c & bY

Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

Hi fb]h]b`Gi Va]gg]cb

≠mci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UHfYa` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiHfci`[`\`Hi`fb]h]b`z`d`YUgY`
HY`Yd\cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``"``%cf`Ya`Uj`hYa`icb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`""Gi`ddcfh`
\ci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`icb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`icb`k`YY`YbXg`f1`*)`XUmg`U`mY`Uf2`≠mci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiXi`Y`hc`U`Zji`hk`]h`Hi`fb]h]b`mci`a`UmUdd`mZc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`
a`i`ghfYhU]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhU`cb[`k`]h`Ubmc`h`Yf`fY`Yj`UbhXcW`a`Yb]gk`hc`
]bWi`XY`Ug`Yj`]XYbVW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb`≠mci`Ya`Uj`9I`HYfbU`Gi`ddcfhmc`i`k`j`
Ui`hca`UH]WU`mifYW]j`Y`U`h]W`Yhbi`a`VYf`z`Vi`h]Zmci`HY`Yd\cbY`mci`k`j`bYYX`hc`gdYW]Z]WU`mUg`Zc`f`cbY`
Hi`fb]h]b`U`gc`dfcj`]XYg`i`dXUH`g`cb`h`Y]f`gmghYa`ig`hU`h`g`cb`Hk`]hYf`"

;`YbYfU`mz`UggYgga`YbhiUg_g`a`i`ghVY`gi`Va`]hYX`Y`YWfcb]WU`mj`]U`Y]h`Yf`Hi`fb]h]b`cf`U`A`ccX`Y`
Ugg][`ba`Ybhi`h`]bg]h]bVW`g`k`\YfY`h`g`]g`bchdcgg]V`Yz`]hk`]`VY`ghU`YX`cb`mci`f`Wci`fgY`g`A`ccX`Y`g]h`k`]h`
U`HYfbU]h]`Y`gi`Va`]gg]cb`XYhU]g`"

:`cf`]bZcfa`Uh]cb`cb`\ck`hc`gi`Va`]hUgg][`ba`Yb]g`cb`]bY`j`]U`A`ccX`Y`.\`h]dg`#`gh`XYbhi`bgk`"YXi`"Ui`#ck`!
gi`Va`]hUgg][`ba`Yb]h`a`ccX`Y`"

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

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[`h`Y`a` `U`g`m`c`i`f`c`k`b``#W]b`h]U`_`Y`a`U`b`m`
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[`h`c` `U`W`W`Y`X`Y`b`h]U` `m`i`W`c`d`m]b[`Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`_`b`c`k` `Y`X[`Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[`W`U`h`Y`[`c`f`]Y`g.

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wc'dmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]W'g'UbX'j]bZcfa Uh]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh'YgY'UfYUg'k]`VY'ZJa]]Uf'hc'mci ž'ch'Yfg'k]`VY'bYk "; U]b]b['U'gc`X'i bXYfghUbx]b['cZU`h'Y fY'UH'X'UgdYW'g'cZ9@-G9'k]`Y'd'mci 'a U_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

