



# ARTS3638

@YUfb]b[ `>UdUbYgY`h\fc i [ \ `A Ub[ U`UbX`5b]a Y

HYfa `Hk c` `##`&\$&%

7ci fgY`Cj Yfj ]Yk

GhJZ`7cbhJW`8YhJ]`g

7cbj Ybcfg

B Ua Y	9a U]	5j U]UV] ]m	@cW]h]cb	D\cbY
Gi a ]_c`]XU	g"]XU4 i bgk "YXi "Ui	H65	A cfj Yb`6fck b &+&	\$&'- \$*) ) ' ' %

GWx cc``7cbhJW`bZcfa Uh]cb

7ci fgY'8YHJ]`g

7fYX]hDc]bqg`\*`

Gi a a UfmcZ\Y'7ci fgY

; ]j Yb'hY'dcdi `Uf]mhcZVch`>UdUbYgY`Wca ]Wg'cf'a Ub[ U'UbX'Ub]a Y'k ]h`YUfbYfg'cZ>UdUbYgYžhY  
Wci fgY`ZcW`gYg'cb'U'g]b[ `Y'h]hY`fUj U]UV'Y`Vch`]b'a Ub[ U'UbX'Ub]a Yk'hUhfYZYWg'j Uf]ci g`UgdYWg'cZ  
Wc`bhYa dcfUfm>UdUbYgY`]Z'gi Wk`Ug`ZJa ]m`]ZžYXi`W]hcbžUbX'k cf\_`"H\Y`Wci fgY`dfcj ]XYg'mci `Ub  
cddcfh`b]mihc`%&YI`hYbX'mci f`>UdUbYgY`Ub[ i U[ Y`j`cW]Vi`Ufmž[ fUa a Uf'UbX'\_Ub]h'fci [ \`i`g]b[ `Ui`hYb]h]W  
a UHf]U'gž&E]a dfcj Y'mci f`]ghYb]b[ `g\_]`g`h'fci [ \`k`UHW]b[ `Ub]a YžUbX'"`E`UbU'mgY`hY`gcW]c!W`h`fU`  
UgdYWg'cZ\Y`Ub]a Y#`a Ub[ U'h]hY`Ug'dUfhcZU`W]h]W`"]fFUWmUddfcUWX""5W]j ]h]Yg`]bW] XY`fYUX]b[ `hY  
a Ub[ U'ci`h'ci XždYfZcfa UbW`cZcbY`gYW]cb`Zca`U'gYha Ub[ U#Ub]a Y`bUffU]h] YžUbX'gdYW]Z]W`Ub[ i U[ Y

5ggYgga Ybh

5ggYgga YbhHUg\_g

5ggYgga YbhHUg_	K Y][ \h	8i Y'8UHŸ	Gh XYbh@YUfb]b[ Ci hŤa Yg'5ggYggYX
E i ]nnYg'	' \$i	Hi hcf]U`WUgg]b`K ' žK ) `UbX K ,	%ž'&ž'
A Ub[ U'DYfZcfa UbWŸ'	&\$i	%&#\$+#&\$&%\$-.\$\$\$'5A	%ž'&ž'
5b]a Y'DYfZcfa UbWŸ'	&\$i	&*#\$+#&\$&%\$-.\$\$\$'5A	%ž'&ž'
@YUfb]b[ `Dfc YWŸ'	' \$i	K %\$	

: YYXVUW\_ ]b`hY`Zcfa`cZbi`a`Yf]WJ`a`Uf`\_`UbX`j`JU`fi`Vf]W

5ggYgga`Ybh`(`.`5b]a`Y`DYfZcfa`UbW

GHUfhXUH. `Bch5dd`]WVY

@Yb[`h.`,`%\$`a`]bi`hYg`dYf`[`fci`d

8YhU]`g.

Gh`XYbh`Ub`U`mgYg`U`gW`bY`Zcfa`Ub`Ub]a`Y`Yd]gcXY`]b`hY`fa`g`cZj`cWU`Vi`U`f`m`Z`YI`dY`gg]cbg`UbX`d`f`cbi`bW]U`h]cb`UbX`h`Y`f`i`gU`[`Y`]b`W`b`h`Y`h`z`h`Y`b`d`Y`f`Z`c`f`a`g`c`b`Y`c`Z`h`Y`W`X`U`f`U`W`h`f`g`V`m`j`c`]W`h`c`j`Y`f`]b`[`"``5`Z`Y`f`h`Y`d`Y`f`Z`c`f`a`Ub`W`Z`g`h`X`Y`b`h`g`Y`Z`Y`j`U`i`U`h`Y`g`h`Y`d`Y`f`Z`c`f`a`Ub`W`"fdYfZcfa`UbW`h]a`Y.`bc`a`c`f`Y`h`Ub`%\$`a`]bi`hYg`dYf`dYfZcfa`UbW`E`"H`Y`d`Y`f`Z`c`f`a`Ub`W`]g`a`c`g`h`\_]`Y`m`h`c`V`Y`W`b`X`i`W`h`X`]b`]b`h`f`U`W`h]cb`k`]h`c`h`Y`f`W`X`U`f`U`W`h`f`g`dYfZcfa`YX`V`m`ch`h`Y`f`g`h`X`Y`b`h`f`g`h`"

: YYXVUW\_ ]b`hY`Zcfa`cZbi`a`Yf]WJ`a`Uf`\_`UbX`j`JU`fi`Vf]W

5ggYgga`Ybh(`.`@YUfb]b[`Dfc`YVh

GHUfhXUH. `K`

@Yb[`h.`,`k`YY`\_`g

8YhU]`g.

Gh`XYbh]X`Y`bh]Z`Y`g`\_]`f`g`E`g`#`A`Y`k`]g`Y`g`h`c`Y`b`Ub`W`Z`g`Y`W`h`c`k`b`a`U`h`f`]U`Z`c`a`Y`]h`Y`f`a`Ub`[`U`c`f`Ub]a`Y`Z`d`U`bb]b[`c`k`b`h`U`g`\_]`i`g]b[`h`Y`h`h`Y`Z`d`i`h`h`Y`a`]b`h`c`d`f`U`W`h]W`Z`g`Y`Z`Y`j`U`i`U`h`Y`h`Y`k`c`f`\_]`g`\_]`Z`Ub`X`g`U`f`Y`h`Y`c`i`h`W`a`Y`g`k`]h`c`h`Y`f`g`h`X`Y`b`h`"Gh`XYbh`\_`Y`Y`d`g`f`Y`W`c`f`X`c`Z`U`"c`Z`h`Y`"Y`U`fb]b[`U`W`h]`]h`Y`g`]b`U`d`c`f`h`Z`c`]"8`i`f`U`h]cb`K`)!%\$`"5`d`d`f`c`l`]a`U`h`Y`m`%`"l`c`i`f`g`c`Z`k`c`f`\_]`b`W`i`X]b[`]b`!`W`U`g`g`U`W`h]`]h`Y`g`"

: YYXVUW\_ ]b`hY`Zcfa`cZbi`a`Yf]WJ`a`Uf`\_`UbX`j`JU`fi`Vf]W

Gi`Va`]gg]cb`b`chYg.`7`ca`d`]Y`U`"X`c`W`a`Y`bhg`Ub`X`d`c`g`h`h`Y`a`c`b`A`c`c`X`Y`U`gg][`ba`Y`bh`V`c`l

Hi`fb]h]b`g`Y`h]b[`.`H`h]g`]g`b`ch`U`Hi`fb]h]b`U`gg][`ba`Y`bh



K YY_-. :&* 'i `m! " \$ 'i `m	@YWh fY	
	Hi hc f]U`	
K YY_ %\$. :& 5i [ i gh! `*`	@YWh fY	
5i [ i gh	Hi hc f]U`	

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

· % `>i a d`7ca ]Wg`GE

F YWca a YbXYX`F Ygci fWg

A UmbUfXžGYb\_c"?`f&\$%\*Ł8g[V A dS`fk [ `fZW6 [eUagdeWaX<SbS` WēWBabg`Sd5g`fgdWž>c\b`6Yb^Ua ]bg  
Di V`]g\]b[ `7ca dUbmž`5a ghYfXUa "`  
7\UdhYf`· · 7\UdhYf+

BU[ U]žHUhgi mi \_]`YhU`ž5bc\UbU".`7ca d`YH`gYf]Yg`hY`Zck Yf`k Y`gUk `h\UhXUmfB`€`5a Yf]WJžDfYa ]i a  
YX"ž&\$%#%#`  
8J8` fl+- %"(` +#5BC #/L

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

: cfa U`ZYXVUW`Zca`ghi XYbHg`k ]`VY`Wc`YWYX`j ]U`A m9I dYf]YbWž`UbX`k ]`VY`i gYX`hc`]a dfcj Y`Z hi fY  
]bhYfUW]cbg`cZ\]g`Wci fgY"·#Zcfa U`fYU`!hja Y`ZYXVUW`]g`U`gc`j Yfmik Y`Wca Y`Y]hYf`]b`dYfgcb`cf`h`fci [ \  
A ccX`Y`Zcfi a`Zcf`gi [ [ Ygh]cbg`UbX`Wca a YbHg"



Gi Va ]gg]cb 'cZ5ggYgga YbhiHUg\_g

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

Ʒmci 'YbWci bHYf'U'dfcV'Ya 'k \Yb'UH'Ya dh]b[ 'hc'gi Va ]hmc'i f'Ugg][ ba YbhiH'fci [ \ 'Hi fb]h]bž'd'YUgY  
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-', ) " ' ' %cf'Ya U] 'H'Ya 'cb'YI HYfbU'HY'hgi ddcfh4 i bgk "YXi "Ui "'Gi ddcfh  
\ci fg'UfY', .\$\$Ua '—%\$.\$\$da 'cb'k YY\_XUmg'UbX'-. \$\$Ua '—) .\$\$da 'cb'k YY\_YbXg'fI \*) 'XUmg'U'mYUfI" Ʒmci  
UfY'i bUV'Y'hc'gi Va ]hmc'i f'Ugg][ ba YbhiXi Y'hc'U'Zi 'hk ]H'Hi fb]h]b'mci 'a UmUdd'm'Zcf'Ub'YI HYbg]cbž'Vi hmc'i  
a i ghfYHU]b'mci f'h]W\_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb[ 'k ]H'Ubmc'H'Yf'fY'Yj UbhXcW a YbHg'k'hc  
]bWi XY'Ug'Yj ]XYbVW'hc'gi ddcfhmc'i f'YI HYbg]cb'Udd'jW]h]cb" Ʒmci 'Ya U] '9I HYfbU'Gi ddcfhmc'i 'k ]  
Ui 'ca UH]WU'm'fYW]j Y'U'h]W\_Yhbi a VYfž'Vi h]Zmci 'HY'Yd\cbY'mci 'k ]'b'YX'hc'gdYW]Z]WU'mUg\_'Zcf'cbY"  
Hi fb]h]b'U'gc'dfcj ]XYg'i dXUH'g'cb'H'Y]f'gmgh'Ya 'ghU'h'g'cb'Hk ]HYf"

; YbYfU'mž'UggYgga YbhiHUg\_g'a i ghVY'gi Va ]HYX'Y'YW'fcb]WU'mj ]U'Y]H'Yf'Hi fb]h]b'cf'U'A ccX'Y  
Ugg][ ba YbH' 'b]bgHUbVW'g'k \YfY'h'lg ]g'bc'hd'cgg]V'Yž'hk ]'VY'gh'UH'X'cb'mci f'Wci fgY'g'A ccX'Y'g]H'k ]H  
U'HYfbUH] Y'gi Va ]gg]cb'XYHU]g"

: cf]bZ'fa UH]cb'cb'\ck 'hc'gi Va ]hUgg][ ba YbHg'cb]bY'j ]U'A ccX'Y. \h'hdg.#gh XYbH'i bgk "YXi "Ui #ck!  
gi Va ]hUgg][ ba YbH'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`U`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']hYg'Ug'U'gh XYbhUhl BGK
-

