



# ARTS2819

; `cVU`]gUh]cb`UbX`; cj YfbUbW

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

7 ci fgY`Cj Yfj ]Yk

GHJZ`7 cbHJW`8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cW]h]cb	D\cbY
8YVcfU\`6Uffcg @YU` : Uf]Ug	XYVcfU\V`Z4 i bgk "YXi "Ui	i dcb`fYei Ygh	A 6% )	

GW\cc``7cbHJW`bZcfa U]h]cb

GW\cc``cZGcW]U`GWYbWg

Fcca`%) -

Acfj Yb`6fck b`7 &\$

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

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

7ci fgY'8YHJ)`g

7fYX]hDc]bqg`\*`

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

A cghgV\c`Ufgz`dc`]W\ia U\_Yfg`UbX`[ cj YfbUbW`dfUW]h]cbYfg`Uf[ i Y`h`Uh`[ `cVU`]gU]cb`YI ]ghg`UbX`]g  
]a dcfU]b]h`Vi hbchU`c`ZYf`U`WYUf`i bXYfgh]UbX]b[ `cZk` \Uh[ `cVU`]gU]cb`a YUbg`Zcf`W`b]h`Ya dcfU]fmk`cfX  
dc`]h]Wg`H\]g`W`ei fgY`k`]`YbUV`Y`mci` `hc`i bXYfgh]UbX`UbX`UbU`mgY`h`Y`m`dYg`z`ghf`i W`h`fYg`UbX`a`Y`h`c`Xg`c`Z  
[ cj YfbUbW`Uh`h`Y`[ `cVU`Y`j`Y`h`fci` [ \`YI`d`c`fU]h]cb`c`Z`h`Y`b`U`h`f`Y`z`]a`dUW]g`UbX`Z`h`f`Y`c`Z`[ `cVU`]gYX`Y`Z`Y`  
H\Ya`Yg`c`Z`[ `cVU`[ cj YfbUbW`f]bW`X]b[ `]b]h]fb]U]h]cb]U`gYW`f]m`z`[ `cVU`]gYX`Y`W`b`c`a`]W`F`Y`U]h]cbg`z  
fY`[ ]cb]U`]ga`z`i`a`Ub`f`[ \`hg`z`h`Y`X`Y`j`Y`c`da`Y`b]h]fY`[ ]a`Y`z`UbX` \i`a`Ub`]h]f]U]b`]b]h]f]j`Y`b]h]cb]E`U`F`Y`U`X`X`f`Y`g`g`Y`X`]b  
fY`U]h]cb`h`c`k` \Uh]h]a`Y`Ubg`h`c`ei`Y`gh]cb`h`Y`b`U`h`f`Y`UbX`Z`b`W]cb`c`Z`d`c`k`Y`f`z`U`i`h`c`f`]m]U]bX`[ `cVU`W`c`d`Y`f`U]h]cb  
]b`]b]h]fb]U]h]cb]U`fY`U]h]cbg`" `b`d`U]f]W`U`f`z`mci` `k`]`YI`d`c`f`Y`W`f]U]b]dc`]h]W]U`UbX`dc`]W]h`X`Y`V`U`h`Y`g`V`Y` \]b`X`]g`g`i`Y`g`  
gi`W`U`g`]b]h]fb]U]h]cb]U`]X`z`Z`c`f`Y`[ b`X`Y`V`h`z`ghf`i` W`h`f`U`U`X`↑`g`h`a`Y`b]h]z`Y`b`j`f`c`b`a`Y`b]h]U`X`Y`[ f`U`X`U]h]cb]z`U`g`k`Y`U`g`h`Y`  
fc`Y`UbX`Y`Z`Y`W`g`c`Z`B` ;`C`g`z`]b]h]fb]U]h]cb]U`cf`[ Ub]g]U]h]cbg`UbX`h`Y`k`]X`Y`f`]b]h]fb]U]h]cb]U`W`c`a`a`i`b`]m`i`H`Y`W`c`i`fg`Y`  
k`]`d`U]f]W`U`f`m]Z`c`W`g`c`b`]b]h]f`c`X`i`W]b[ `mci` `hc`W`f]h]W]U`U`d`d`f`c`U`W`X`Y`g`h`c`[ `cVU`]gU]h]cb`UbX`[ `cVU`[ cj YfbUbW`z  
UbX`mci` `k`]`V`Y`U`g`\_`Y`X`h`c`Y`I`U`a`]b]Y`U`j`U`f]Y`h`m`c`Z`]g`g`i`Y`g`z`e`i`Y`g]h]cbg`UbX`W`c`b`W`f`b`g`f`U]g`Y`X`V`m`h`Y`g`h`i`X`m`c`Z  
[ cj YfbUbW`UbX`h`Y`]a`d`]W]h]cbg`c`Z`h`Y`g`Y`]g`g`i`Y`g`Z`c`f`[ `cVU`dc`]h]Wg`"

Gi V`Y`W`h`5`f`Y`U`D`c`]h]Wg`UbX`b]h]fb]U]h]cb]U`F`Y`U]h]cbg`"

7ci fgY`@YUfb]b[ `Ci`h`W`c`a`Y`g

%`C`i`h`]b]Y`UbX`Y`j`U`i`U`h`Y`W`c`a`d`Y`h]b[ `d`Y`f`g`d`Y`W`h]j`Y`g`c`b`[ `cVU`]gU]h]cb`UbX`[ `cVU`[ cj YfbUbW`z`X`Y`g`W`f]V]b[  
`\_`Y`m`X`Y`V`U`h`Y`g`]b`g`h`X`]Y`g`c`Z`W`c`b]h]Y`a`d`c`f`U`f`m`[ `cVU`[ cj YfbUbW`"  
&"`9`I`d`U]b`UbX`X`Y`g`W`f]V`Y` \`c`k`[ `cVU`]gU]h]cb`U`Z`Y`W`g`X`]Z`Y`f`Y`b]h]f`f`Y`[ ]a`Y`g`f]b[ `cVU`dc`]h]Wg`"  
'`" `8`]g`W`g`g`h`Y`W`c`a`d`Y`I`]h]Y`g`c`Z`dc`]W`h`i`a`U`\_]b[ `U`h`h`Y`[ `cVU`Y`j`Y`UbX`Y`I`d`U]b`h`Y`fc`Y`c`Z`\_`Y`m`U`W`c`f`g`]b  
[ `cVU`[ cj YfbUbW`"  
("`F`Y`W`c`[ b]g`Y`h`Y`c`V`g`h`U`W`Y`g`h`c`Y`Z`Y`W`h]j`Y`W`c`!`c`d`Y`f`U]h]cb`V`m`i`g`h`U`h`g`z`]b]h]f`[ cj Yfba`Y`b]h]U`cf`[ Ub]g]U]h]cbg`z  
d`f]j`U`h`Y`U`W`c`f`g`UbX`[ `cVU`W]j`]`g`c`W]Y`m`z`UbX`h`Y`d`c`h]b]h]U`h`c`j`Y`f`W`c`a`Y`h`Y`g`Y`c`V`g`h`U`W`Y`g`"

HYUW\]b[ `G`h`f`U`h`[ ]Y`g`

H`Y`W`c`i`fg`Y`]g`h]i`[ \`h`h`f`c`i`[ \`U`k`Y`Y`\_`m`k`Y`Y`\_`m`h`k`c`!`c`i`f`Y`W`h`f`Y`UbX`c`b`Y`!`c`i`f`h`h`c`f]U`z`k`]h`g`c`a`Y`c`b`]b`Y`!  
Z`U`W`W`h]j`f`h`h`c`f]U`z`k`]h`g`c`a`Y`c`b`]b`Y`!

# 5ggYgga Ybh

GYY'A ccX'Y'Zc'f' [ fUX]b[ 'fi Vf]WUbx'Z 'XYHJ]g'cZYUW 'Ugg][ ba Ybh'

## 5ggYgga YbhHUg\_g

5ggYgga YbhHUg_g	K Y][ \h	8i Y'8UH'	Gh XYbh@YUfb]b[ Ci hWta Yg'5ggYggYX
7 UgY'Gh XmdUdYfg'	) \$i	fgYY'A ccX'Yc	' ž(
9i Ua ]bUH]cb'	) \$i		%ž&

## 5ggYgga Ybh8YHJ]g

5ggYgga Ybh% '7 UgY'Gh XmdUdYfg

GHUfhXUH'. 'Bch5dd']WUV'Y

8YHJ]g.

Gh XYbh]gi Va ]hik c' ]bX]j ]Xi U'WUgYg'gh XmdUdYfgžVUgYX'cb'ik c'gYdUfUH' [ cj YfbUbW'YI Ua d'Yg'f&'l %&\$ \$'k cfXg' "9UW 'WUgY'gh XmdUdYf' ]g'k cfh' &) i 'cZh'Y'cj YfU' [ fUXYZ'Zc'f'U'hc'U'cZ) \$i "Gh XYbh]a i gh i gY'h'Y]f'dUdYfg'hc'fYZYWh'cb'YI ]gh]b[ 'fYgYUfW'žW ffYbhXYVUH'g'UbX'dc']WmX]Ya a Ug'UW'fcgg'h'Y [ cj YfbUbW'YI Ua d'Yg' ]b'ei Ygh]cb' ]b'YUW 'WUgY'"Gh XYbh]k ]'fYW' ]j' Y'k f]h'Y'b'Z'YXVUW'ž'U'Wta d'Yh'X fi Vf]WUbx'U'bi a Yf]W' [ fUXY'h'fci [ \ 'A ccX'Y'k ]h]b'ik c'k YY\_g'cZgi Va ]gg]cb"

5XX]h]cbU'XYHJ]g.

8YHJ]g'fY [ UfX]b[ 'gi Va ]gg]cb'f]bW' X]b[ 'XUH'g'Uj U]UV'Y'cb'A ccX'Y

Hi fb]h]b'gYH]b[ . H\]g'Ugg][ ba Ybh]g'gi Va ]h'YX'h'fci [ \ 'Hi fb]h]b'UbX'gh XYbh]Xc' bch'gYY'Hi fb]h]b]g]a ]Uf]mfYdc'f'g"

5ggYgga Ybh& '9i Ua ]bUH]cb

GHUfhXUH'. 'Bch5dd']WUV'Y

8YHJ]g.

Gh XYbh]UfY'fYei ]fYX'hc'g]hU'&! \ci f'Z]bU'YI Ua 'Xi f]b[ 'h'Y' ] b]j Yfg]mf]g'YI Ua ]bUH]cb'dYf]cX'"H\Y YI Ua ]bUH]cb'k ]'Yj U'i UH'U'gh XYbh]g'UV']mih' h' ]b\_gmb'h'Yh]W' ]m'UbX'W'h]W' ]m'UV'ci h'h'Y'a U'h'f]U' ]b'h'Y W'ci fgY'" h'fYei ]fYg'gh XYbh]g'hc'Yb[ U[ Y'k ]h' W'cb'h'bh'UW'fcgg'h'Y W'ci fgY'k \ ]Y Ug\_]b[ 'h'Ya 'hc'XYa cbgfU'h' h'Y]f'UW' ]j] Ya Ybh'cZ'h'Y'k YY\_m'YUfb]b[ 'ci h'Wta Yg'"9i Ua ]bUH]cb'gW]d'rg'k ]'VY'a Uf\_YX'Vi h'bc'h'fY'h' fbYX hc'gh XYbh]g'"Gh XYbh]g'fYW' ]j' Y'U'bi a Yf]W' [ fUXY'UbX'WU'bh'fYei Ygh]Z'ca 'h'Y'GW'cc'cZGcW]U'GW]YbW'g'hc' gYY'h'Y]f'YI Ua ]bUH]cb'dUdYf' H\]g' ]g'h'Y'Z]bU'UggYgga YbhZ'c'h' ]g'W'ci fgY"

5XX]h]cbU'XYHJ]g.

8YHJ]g'fY[ UfX]b[ 'gi Va ]gg]cb'f]bWl X]b[ 'XUH'gE'Uj U]UV'Y'cb'A ccX`Y

Hi fb]h]b'gYH]b[ . 'H\]g' ]g'bchU'Hi fb]h]b'Ugg][ ba Ybh

5 HbXUbW F Yei ]fYa Ybhg

Gh XYbhg UfY gfcfb [ mYbWci fu[ YX hc UHbX U WUggYg UbX fyj ]Yk YWfi fy fYWcfX]b[ g"

7 ci fgY GWXYXi Y

[J Yk WUgg ha YhUVY](#)

Hja YhUV Y

8Uhr	HmdY	7cbhYbh
K YY_% " %A Um! (" >i bY	@YWh fy	Hcd]W'; `cVU`nUh]cb/'; `cVU`; cj YfbUbWV` ? YmXYZ]b]h]cbg`UbX`UWc fg
K YY_& . + >i bY!`%% >i bY	@YWh fy	Hcd]W`I bXYfghUbX]b[ `hY`; `cVU`GmghYa` % H\Ya Y. F YU]gh/ `@]VYfU`hYcf]Yg
K YY_ . % >i bY!`% >i bY	@YWh fy	Hcd]W`I bXYfghUbX]b[ `hY`; `cVU`GmghYa` & H\Ya Y. 7 f]h]W`hYcf]Yg
K YY_( . &%>i bY!`&) >i bY	@YWh fy	Hcd]W`H\Y`9j c`i h]cb`cZh\Y`; `cVU`GmghYa` H\Ya Y. 9a d]fygZ`7 c`cb]nUh]cbZ`@cb[ `% h`Wbhi fm
K YY_) . & , >i bY!`&>i `m	@YWh fy	Hcd]W'; `cVU`nUh]cb. `&\$h`Wbhi fm]fca` UVcj Y H\Ya Y. K K &/`7 c`X`K`Uf
K YY_* . ) >i `m!`- >i `m	F YUX]b[	F YUX]b[ `k YY_!`bc`WUgg
K YY_+ . %&>i `m!`%* >i `m	@YWh fy	Hcd]W'; `cVU`nUh]cb. `&\$h`Wbhi fm]fca` VY`ck H\Ya Y. 8 YWc`cb]gUh]cb/`]bXYdYbXYbW
K YY_ . % - >i `m!`&` >i `m	@YWh fy	Hcd]W'; `cVU`; cj YfbUbWVZ`@Uk`Z`bHfYfbUh]cbU` CfXYf H\Ya Y. 9bj ]fcb a Ybh/`7`]a`UHY`7`Ub[ Y
K YY_- . &* >i `m!`" \$ >i `m	@YWh fy	Hcd]W'; `cVU`9bj ]fcb a YbhU`Dc`]h]Wg .
K YY_%. &5i [i gh!`* 5i [i gh	@YWh fy	Hcd]W`H\Y`; `cVU`9Wc bca m H\Ya Y. A : Z; +Z; &\$Z6F 7G



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'fgi 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'UbmcH'Yf'fY'Yj UbhXcW a YbHgE'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'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]bg]UbVW'g'k \YfY'H'g ]g'bc]hdccg]V'Yž]hk ]'VY'ghUH'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
-

