



# ARTS1241

9bj ]fcba YbH`5Xj cWUWmUbX`5Wj] ]ga

HYfa `H\fYY`##`&\$&\$

7ci fgY`Cj Yfj ]Yk

GHJZ`7cbHJW`8YHU]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cW]h]cb	D\cbY
>c\b`7Uff	^c\b"WUff4 i bgk "YXi "Ui	H\i fgXUmž ) .\$\$DA !* .\$\$DA UbX`VmUddc]b]a Ybh	A cfj Yb`6fck b ' *'	- ' , ) & ' %

@YW]i fYfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cW]h]cb	D\cbY
HYa U`A ]ghY]b	hYa U`a ]ghY]b4 i bgk "YXi "Ui	K YXbYgXUmğ %%\$\$5A !%& .\$\$DA UbX`Vm5ddc]b]a Ybh	A cfj Yb`6fck b ' * (	Ž *%&`- ' , ) ' +- +

Hi hcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cW]h]cb	%b



# 5ggYgga Ybh

## 5ggYgga YbhHUg\_g`

5ggYgga YbhHUg_	K Y][ \h	8i Y'8UHŸ	Gh XYbh@YUfb]b[ Ci hWta Yg'5ggYggYX
C b`]bY'8]gW gg]cb': cfi a`	) \$i	%+#/%#&\$&\$'\$(. \$\$'DA	%ž ž(
: ]bU`Dfc'YVh'9ggUmi	) \$i	&( #/%#&\$&\$'\$(. \$\$'DA	%ž&ž ž)

## 5ggYgga Ybh8YHU]`g

5ggYgga Ybh%`C b`]bY'8]gW gg]cb': cfi a

GHUfhXUHŸ. '&#&\$- #&\$&\$'\$(. \$\$'DA

@Yb[ h. '%) \$\$

8YHU]`g.

C b`]bY'X]gW gg]cb'Zcfi a`-h\]g'cb`]bY'Zcfi a`k ]`VY'U'fYdcg]hcfmicZ%&'hja Yg'U'k YY\_'HUg\_g'hc'dfYdUFY  
gh XYbhg'Zcf'YVh'fY'UbX'h'hc]U`H\YgY'HUg\_g'k ]`]bW'XY'k YY\_'mifYUX]b[ 'fYZYW]cbgž'fYUX]b[ 'ei ]nnYgž  
X]gW gg]cb'ei Yg]cbgž'UbX'ga U`dfc'YVh'hc'dfYdUFY'gh XYbhg'Zcf'hY'Z]bU`UggYgga Ybh'5`'HUg\_g'Yei U`m  
k Y][ \hYX'UbX'a Uf\_YX'i g]b[ 'U'ghUbXUFX]nYX'fi Vf]W'HcHU`h'fci [ \ci h'hY'h'fa '1'%ž) \$\$'k cfXg`

Gh XYbhg'dfcj ]YX'ZYXVUW\_`j ]U'fi Vf]Wa Uf\_g'UbX'Wta a Ybhg'k \YfY'Uddfcdf]UHŸ' h'fci [ \Hi fb]h]b"

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

Gi Va ]hj ]U'A ccX'Y'YUW'k YY\_'cb'hY'XUmcZ'hY'cb!W]a di g'WUgg'VY'ZcfY'hY'ghUfhcZ'WUggž'Wta a YbW]b[  
cb'k YY\_'%": cf'a cfY'XYHU]gž'd'YUgY'fYZf'hc'hY`"5ggYgga Ybh'bg]fi W]cbg`"XcW a YbhdcghYX'cb'ci f  
Wci fgY'A ccX'Y'g]hŸ

Hi fb]h]b'gYH]b[ . H\]g'Ugg][ ba Ybh]g'gi Va ]hYX'h'fci [ \Hi fb]h]b'UbX'gh XYbhg'Xc'bchgYY'Hi fb]h]b

5 hYbXUbW F Yei ]fYa Ybhg

Gh XYbhg UFY gfcfb[ mYbWci fU[ YX hc UHhYbX U WUggYg UbX fYj ]Yk YWih fY fYWcfX]b[ g

7 ci fgY GWYXi Y

[J Yk WUgg ha YhUV Y](#)

Hja YhUV Y

8 UHr	HmdY	7 cbhYbh
K YY_%%(GYdhYa VYf! %GYdhYa VYf	@YWh fY	7ci fgY]bfrcXi W]cb. Gfhi Wi fU`9I d`UbUh]cbg Zcf`GcWU`/`9bj ]fcb a YbHU`7\Ub[ Y
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_
K YY_&.&%GYdhYa VYf! &)GYdhYa VYf	@YWh fY	8]gW fg]j Y#XYc`c[ ]WU`9I d`UbUh]cbg`Zcf`GcWU`/` 9bj ]fcb a YbHU`7\Ub[ Y
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_
K YY_`.&`GYdhYa VYf! &`C Wc VYf	@YWh fY	7`Ugg]Wdc`h]WU```]VYfU`]ga `UbX`Wc]bj Ybh]cbU` UddfcUW Yg`hc`UXj cWUWhUbX`dc`]Wm hfUbgZcfa Uh]cb
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_
K YY_(.)`C Wc VYf!`- C Wc VYf	@YWh fY	7c``YW]j Y`UW]cb`UbX`]bhYfbU`fYg]ghUbwW
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_
K YY_)`.%&`C Wc VYf!`!* C Wc VYf	@YWh fY	Bcbj ]c`YbhifYg]ghUbwW`UbX`X]fYWhUW]cb
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_
K YY_`*`.%`C Wc VYf!`& C Wc VYf	F YUX]b[	H\]g`k ]``VY`hY`fYUX]b[ `k YY_`Zcf`hY`Hfa`"
K YY_+.`&`*`C Wc VYf!``\$ C Wc VYf	@YWh fY	9WcW`hi fU`7\Ub[ Y`UbX`8]gfi dh]cb
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_
K YY_,.`&`Bcj Ya VYf!`* Bcj Ya VYf	@YWh fY	I`hcd]Ub`9WcW`hi fU`Dfc`YWg
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_
K YY_-.`-`Bcj Ya VYf! %`Bcj Ya VYf	@YWh fY	J]c`YbhX]fYWhUW]cb`UbX`F Yg]ghUbwW
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_
K YY_`%\$`.*`Bcj Ya VYf! &\$`Bcj Ya VYf	@YWh fY	7cbWi`g]cb`DUbY`.@]j ]b[ `Ug`Ub`Ybj ]fcb a YbHU` WU`Ub[ Y`a`U`_Yf
	Cb]bY`5W]j ]lm	H\fcI [ \ci hH Y`Hfa žgh XYbhg`k ]``\Uj Y`cb]bY `YUfb]b[ žfYZYW]cbžUbX`[ fci dk cf_

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

Mci f`\_YmfYUX]b[ g`UbX`chYfa Uhf]U`g`k ]`VY`Uj U]UV`Y`j ]U`mci f`A ccX`Y`g]h`"

F YWca a YbXYX`F Ygci fWg

Mci `UFY`YI dYWX`hc`a U`\_Y`[ ccX`i gY`cZ`hY`fYUX]b[ g`dfcj ]XYX`Zc`f`hY`Wci fgYž`UbX`hc`fYUX`VYmcbX`h`cgY`  
a Uhf]U`g`Zc`f`mci f`Ugg][ ba Ybhg`" :`bXYdYbXYbhfYgYUfW` ]g`YI dYVWX`"

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

DUghYI dYf]YbW`UbX`ghi XYbhZYXVUW`\_cb`hY`I` B`G`K`\_`cb`]bY`gi fj Ymfc`a` m`9I`dYf]YbW`\_]bX]WUhg`hY`  
]a`dcft`UbW`\_cZ`gh`XYbhg`Xc]b[ `WcgY`UbX`WUfYZ`\_`fYUX]b[ `cZ`hY`k`YY`\_`mUgg][ bYX`fYUX]b[ gž`cZYb[ U[ YX`  
ghi XYbhidUfh]WdUh]cb`]b`WUgg`X]gW`gg]cbgž`UbX`cZ`gh`XYbh]bXYdYbXYbhfYgYUfW`"

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'f'gi ddcfh' i bgk "YXi "Ui "'Gi ddcfh  
\ci fg'UfY', .\$\$Ua '—%\$.\$\$da 'cb'k YY\_XUmg'UbX'-. \$\$Ua '—) .\$\$da 'cb'k YY\_YbXg'f'\*) 'XUmg'U'm'YUf'Ʒmci  
UfY'i bUV'Y'hc'gi Va ]hmc i f'Ugg][ ba YbhiXi Y'hc'U'ZU' 'hk ]H'Hi fb]h]b' mci 'a UmUdd'm'Zc'f'Ub'YI HYbg]cbž'Vi hmc i  
a i ghfYHU]b' mci f'h]W\_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhf'U'cb[ 'k ]H'UbmcH'Yf'f'Y'j UbhXc'W a Yb'f'g'k'hc  
]bWi XY'Ug'Yj ]XYbV'hc'gi ddcfhmc i f'YI HYbg]cb'Udd' ]W]h]cb" Ʒmci 'Ya U]'9I HYfbU'Gi ddcfhmc i 'k ]  
Ui 'ca UH]W]m'f'Y'W]j Y'U'h]W\_Yhbi a VYf'ž'Vi h]Zmci 'HY'Yd\cbY' mci 'k ]'b'Y'YX'hc'gd'Y'W]W]m'Ug\_ 'Zc'f'cbY"  
Hi fb]h]b'U'gc'dfcj ]XYg'i dXUH'g'cb'H'Y]f'gm'g'Ya 'g'hU'g'cb'Hk ]H'Y'f"

; YbYfU'mž'UggYgga YbhiHUg\_g'a i ghVY'gi Va ]H'Y'X'Y'Y'W'f'cb]W]m'j ]U'Y]H'Y'f'Hi fb]h]b'cf'U'A ccX'Y  
Ugg][ ba Yb'f' Ʒ ]bg'f'Ub'V'W'g'k \Y'f'Y' 'h' ]g' ]g' bchidcgg]V'Yž'hk ]'V'Y'g'h'U'Y'X'cb' mci f'W'ci fgY'g'A ccX'Y'g]H'k ]H  
U'HY'fbUH] Y'gi Va ]gg]cb'XYHU]g"

: cf]bZ'fa UH]cb'cb'\ck 'hc'gi Va ]h]Ugg][ ba Yb'f'g'cb]b'Y'j ]U'A ccX'Y. \h'hdg.#gh XYb'f'hi bgk "YXi "Ui #ck!  
gi Va ]h]Ugg][ ba Yb'f'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]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wcdmf][ \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 ""

[\hhd.##ji V'YW'i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

