



# ARTS3366

7cbHYa dcfUfm8YVUHg]b'A cfU`UbX'Dc`j]WU`D\]`cgcd\m

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

GWXcc`cZ<i a Ub]HYg`UbX`@Ub[i U[Yg`#`I BGK `5ftg`UbX`GcWU`GwYbWg

7ci fgY`Cj Yfj JYk

GHJZZ7cbHJW`8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]	5j U]UV]]m	@cWJhcb	D\cbY
8Uj JX'6fcbghY]b	X"VfcbghY]b4 i bgk "YXi "Ui		A 6' ((	

GWXcc``7cbHJW`bZcfa Uh]cb

GWXcc``cZ<i a Ub]hYg`UbX`@Jb[ i U[ Yg

@cWJhcb. `GWXcc``C ZWZA cfj Yb'6fck b'6i ]X]b[ ž@Yj Y`&ž&),

CdYb]b[ `<ci fg. A cbXUm! : f]XUmž- Ua '!) da

D\cbY. Ž\*%&'- ' , ) `%, %

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9a U]: [\U'4 i bgk "YXi "Ui](#)

7 ci fgY'8YHJ]`g

7 fYX]hDc]bHg '\*`

Gi a a UfmicZ\hY'7 ci fgY

< i a Ub'VY]b[ g'UFY'Yj U'i Urcfg. k Y'dfU]gY'UbX'V'Ua Yž'U\_Y'h]b[ g'hc'VY'[ ccX'UbX'VUXž'UbX'h]b\_cZk Umg  
hUhk Yž'UbX'hY'k cfX'k Y''j] Y ]bž'Vci 'X'VY'VYHf'h'Ub'h'YmW ffYbhmfY''H\]g'Vci fgY'YI Ua ]bYg'hY  
bUh fY'cZj U'i Y'VmH\_U]b[ 'i d'\_YmHcd]Vg' ]b'VcbhYa dcfUfma cfU'UbX'dc']h]W' 'd\]cgcd\m''5fY'j U'i Yg'U  
ž bV]cb'cZ\i a Ub'XYg]fYgž'VXc]Wgž'UbX'UZZY'Wj Y'ghU'Yg' -cf'Xc'h'YmicVhU]b ]bXYdYbXYbhmicZgi VX  
UZZY'Wj Y'fYgdcbgYg'UbX'UH]h' XYg3'8c'k Y'WYUH'cf'X]gVci Yf'hY'j U'i Yg'hUh[ cj Yfb'ci f'a cfU'UbX  
dc']h]W' 'Vca a i b]h]Yg3'K \UhUFY'ZFYXca žgcj YfY][ bhmž'Ui hcbca mUbX'di V]WfYUgcb'Ug'Yh]W'UbX  
dc']h]W' ]XYU'g3'5fY'a cfU'UbX'dc']h]W' 'Vca a i b]h]Yg' d'fcdYf'mfYgh]W'X'hc'\i a Ub'VY]b[ gž'cf'g\ci 'X'h'Ym  
]bWi XY'bcbl\i a Ub'Ub]a U'g3'K \mXc'k Y'j U'i Y'XYa c'WUH]W[ cj Yfba Ybh'UbX'\ck 'Xc'k Y'a U\_Y ]hk cf\_  
i bXYf'W ffYbhgc'V]Už'h'VXbc'c[ ]W'UbX'YVcbca ]WVcbX]h]cbg3'8c'k Y'bYX'hc'fYh]b\_XYa c'WUW'UbX  
Vca a i b]m]Zk Y'UFY'hc'cZYf'j ]UV'Y'Yh]W'UbX'dc']h]W' fYgdcbgYg'hc'W]a UH'W'Ub[ Y3'H\YgY'UFY'hY'gcf'g  
cZei Yg]h]cbg'YI d'cfYX' ]b'h]g'UXj Ub'W'X'Vci fgYž'h'fci [ \ž'W'gYX'Yb[ U[ Ya Ybhk ]h' \_YmXYVUH]g' ]b  
VcbhYa dcfUfma cfU'UbX'dc']h]W' 'd\]cgcd\m'' DfY]gY'hc'd]Vg' UbX'UFYUg'a Umj Ufm]Zca 'mYUF'hc' mYUF''

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

- % " 5k UfYbYgg'cZgca Y'cZhY'W'bhU' 'd\]cgcd\]W'XYVUH]g' ]b'a cfU'hYcfm'
- & " H\Y'UV] ]m]hc'Yb[ U[ Y'W]h]W' 'mk ]h' \]g'hc'f]W'UbX'VcbhYa dcfUfmiH]h]g' ]b'a cfU'hYcfm'
- ' " H\Y'UV] ]m]hc'UggYgg'hY'a Yf]hg'UbX'k YU\_bYgg'cZa cfU'Uf[ i a YbHg"
- (" H\Y'UV] ]m]hc'fYVci [ b]nY'UbX'i bXYfgh'UbX'hY'a YHd\ng]W'UbX'Yd]ghYa c'c[ ]W' 'i bXYfd]bb]b[ g'cZ  
j Uf]ci g'a cfU'hYcf]Yg"
- ) " H\Y'UV] ]m]hc'Vca d'cgY'WYUF'UbX' ]bg][ \hž' `UbU'm]W'YggUmg"
- \* " H\Y'UV] ]m]hc'Vca a i b]W]h'Vca d'YI ]XYUg' ]b'Vcbj YfgU]cb'WYUF'mUbX'gi W]b'W'm'

HYUW]b[ 'GhFUH[ ]Yg'

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F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

F cgU`bX`<i fghci gY`A` H[dfgW7fZ[Ue C I ZcX`I b]j Yfg]mDfYggž%- - -

>i `]U`5bbUg;` fWfYW fH[dfgWC I ZcX`I b]j Yfg]mDfYggž&\$%%

F YWca a YbXYX`F Ygci fWg

GhUbZcX`9bWmWcdYX]U`cZD\]cgcd\mYbhfYg.

J ]fhi Y`9h]Wg.`\hdg.##d`Uhc"ghUbZcX"YXi #/bhf]Yg#/h]Wg]j ]fhi Y#

9a d]f]WU`5ddfcUW\Yg`hc`A cfU`7\UfUWYf.`\hdg.##d`Uhc"ghUbZcX"YXi #/bhf]Yg#a cfU`!W\UfUWYf!Ya d]f]WU`#

A cfU`7\UfUWYf.`\hdg.##d`Uhc"ghUbZcX"YXi #/bhf]Yg#a cfU`!W\UfUWYf#

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

D`YUgY`Wca Y`hU`\_hc`hY`Wci fgY`Wcbj Ybcf`UVci hUbm]ggi Yg`\Uj ]b[ `hc`Xc`k`]h`Wci fgY`UXa ]b]ghfUh]cbž`UbX  
VY`gi fY`hc`Z`ci hmc`i f`A m9I dYf]YbW`gi fj YmUh`hY`YbX`!!`U`Z`YXVUW`\_]g`]bghf`i a YbU`hc`XYj Y`cd]b[ `UbX  
]a dfcj ]b[ `hY`Wci fgY"

Gi Va ]gg]cb`cZ5ggYgga YbhiHUg\_g

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≠mci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UH`Ya` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`h`fci`[`\`Hi`fb]h]b`z`d`Y`Ug`Y`  
HY`Yd`cb`Y`9I`HY`fb`U`Gi`ddc`fh`cb`-`,`,)`````%cf`Ya`Uj`h`Ya`cb`YI`HY`fb`U`HY`hgi`ddc`fh` i`bgk`"YXi`"Ui`""`Gi`ddc`fh`  
`l`ci`fg`Uf`Y`,`.\$\$Ua`-`-%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`cb`k`YY`YbXg`f`l`\*)`XUmg`U`m`Y`Uf`l`"≠mci`  
Uf`Y`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Z`Ji`h`k`]h`Hi`fb]h]b`mci`a`Um`Udd`m`Z`f`Ub`YI`HY`bg]cb`z`Vi`hmc`i`  
a`i`gh`f`Y`h]b`mci`f`h]W`Y`hbi`a`VY`f`Z`ca`9I`HY`fb`U`Gi`ddc`fh`f`U`cb[`k`]h`Ub`m`c`h`Y`f`f`Y`Yj`Ub`h`X`c`W`a`Y`b`h`g`k`h`c`  
]b`Wi`XY`Ug`Y`j`]X`Y`b`W`hc`gi`ddc`fh`mci`f`YI`HY`bg]cb`Udd`]W`h]cb`"≠mci`Ya`Uj`9I`HY`fb`U`Gi`ddc`fh`mci`k`j`  
Ui`h`ca`U`h]W`m`f`Y`W`j`Y`U`h]W`Y`hbi`a`VY`f`z`Vi`h]Z`mci`HY`Yd`cb`Y`mci`k`j`b`Y`Y`X`hc`gd`Y`W`Z`W`m`Ug`\_`Z`f`cb`Y`"  
Hi`fb]h]b`U`gc`d`fc`j`]X`Y`gi`d`X`U`h`Y`g`cb`h`Y`j`f`g`m`g`h`Ya`g`h`U`h`g`cb`Hk`]h`Y`f`"

;`Yb`Y`f`U`m`z`Ugg`Y`gga`Yb`hi`U`g`\_`g`a`i`gh`V`Y`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`cc`X`Y`  
Ugg][`ba`Yb`h`i`h`]b`g`h`U`b`W`g`k` \Y`f`Y`h`l`g`]g`b`c`h`d`c`g`g]V`Y`z`]h`k`]`V`Y`g`h`U`h`X`cb`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`  
U`h`Y`fb`U`h]`Y`gi`Va`]gg]cb`X`Y`h]g`"

:`cf`]b`Z`fa`U`h]cb`cb`\`ck`hc`gi`Va`]h`Ugg][`ba`Yb`h]g`cb`]b`Y`j`]U`A`cc`X`Y`.\`h`d`g`#`g`h`X`Y`b`h`i`bgk`"YXi`"Ui`#`ck`!  
gi`Va`]h`Ugg][`ba`Yb`h`a`cc`X`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](#)

