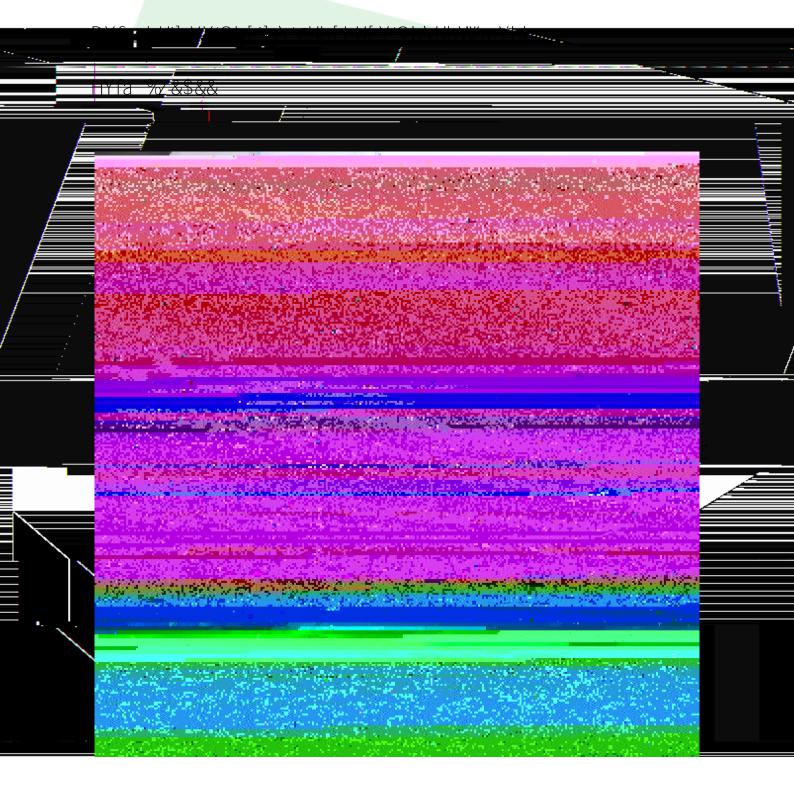


ARTS5505



7ci fgY^{*}Cj Yfj]Yk

GHJZ7cbHJWh8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]hm	@cWJhjcb	D\cbY
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Hi hcfg

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>Uei Y`]bY [.] 7cUb	<u>"WcUb4 i bgk "YXi "Ui</u>			
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 $\label{eq:continuous} \begin{array}{ll} \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY'``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY'``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY'``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY'``cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY'```cf' = bX][Ybci g'] \\ \text{$:$} = \text{$U[Y'Wc$ if} \text{$fhYgmcZh}, Y'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY'C$ $Z_jWY'cZh}, Y'Dfc'J]WY!7 \setminus UbWY'C$ $Z_jWY'cZh}, Y'Dfc'J]WY'C$ $Z_jWY'CAL}, Y$

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$I b h c Z 7 f Y X h^*$

Gi a a UfmcZh\Y'7ci fgY

DYfgcbU`]gYX`9b[`]g\'@Ub[i U[Y'9b\UbWYa YbhfD9@9Ł]g'U'gY`Z\X]fYWYX`YUfb]b['Wti fgY`XYg][bYX'hc`\Y`d mci 'Yb\UbWY'mci f'Wta a i b]WUh]cb'g_]``g']b'9b[`]g\"'+b'h\]g'Wti fgYžmci 'k]```VY'[i]XYX'hc`XYj Y`cd'U dYfgcbU``dfc^YWfih\Uha YYhg'mci f'bYYXg'UbX']a d`Ya Ybh]h]b'U'k Ufa 'UbX'gUZY'Ybj]fcba YbhVY]b[gi ddcfhYX'bchcb`mVmfh\Y'hYUW\Yfg'Vi h'U`gc'VmdYYf'a Ybhcfg"'+b'UXX]h]cbž'mci 'k]```YUfb'U'bi a VYf'cZ]a dcfhUbhg_]`g'bYYXYX'Zcf``]ZY!`cb['`YUfb]b[ž']bWi X]b['fYZYWfj Y'h\]b_]b['UbX'h]a Y'a UbU[Ya Ybh'

7 ci fgY @YUfb]b[Ci hWca Yg

- %" 5bU`mgY`UbX`]XYbhZmidYfqcbU```Ub[i U[Y'bYYXq
- &" 5dd`mhcc`g`UbX`fYgci fWyg`Zcf``Ub[i U[Y'Yb\UbWa Ybh
- " 8 Yg][b'UbX'WUffmci hU'dYfgcbU`'dfcYWhVUgYX'cb'h\Y'UbU'mg]g'cZdYfgcbU```Ub[i U[Y'bYYXg
- ("FYZYWicb`UbX`UggYgg`h\Y]f`ckb'dfc[fYgg`hc`gigHJ]b`dYfgcbU``UbX`dfcZYgg]cbU```Ub[iU[YYb\UbWaYbh
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H\fci [\ci hh\Y`Wci fgYzgh XYbhg`k]``VY`[i]XYX`k]h\fY`Yj Ubhh\YcfmzdfUWhJWJ``gi [[Ygh]cbg`UbX`i gYZ\`fYqci fWYq`]b`Vch\``YWh fY`UbX`h hcf]U``gYqq]cbg"

5ggYgga Ybh

5bmfYZYfYbW]b['gmghYa 'gi W.'Ug'5D5']g'UWWYdHUV`Y']b'h\]g'Wci fgY'Ug'`cb['Ug']h]g'Wcbg]ghYbhmiUdd`]YX. W.YW_I BGK 'Gi ddcfhiZcf'F YZYfYbW]b['5gg][ba Ybhg. '\htdg.#gh XYbh'i bgk "YXi "Ui #YZYfYbW]b[.

Gh XYbhg WUb UWW gg dfYj]ci g gh XYbhgUa d Yg cb C dYb@YUfb]b["

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5ggYgga Ybh% DYfgcbU dfc YWhXYg][b fDD8Ł

5ggYgga Ybh``Yb[h\.'%) \$\$ k cfXg 8i Y`XUhY.'%#\$' #&\$&&'%% \$\$ DA

Ghi XYbhg`XYg][b`h\Y]f`ckb'dYfgcbU``dfcYWhc'UXXfYgg`h\Y]f`ckb'9b[`]g\``Ub[i U[Y'bYYXg"'H\YmUfYfYei]fYX'hc'gdYW]Zmh\Y]f`dYfgcbU``dfcYWh[cU'žVUW_[fcibXžaYh\cXžfYgcifWYgždfc[fYgg'aYUgifYaYbhžh]aY`]bYžgW\YXi `Y'UbX'Ubh]W]dUhYX'cihWcaYg"'H\YmbYYX'hc'XYjY`cd'h\Y]f`DD8'VUgYX'cb'fY`YjUbh`]hYfUhifY'cZh\Y'Z]Y`X'WcbWfbYX"'H\Y'kcfX`]a]h]g'%)\$\$"

Gh XYbhg fYW]j Y k f]hhyb ZYYXVUW_VUgYX cb fi Vf]Wg"

H\]g`Ugg][ba Ybh]g`gi Va]hhYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`Wb`gYY`Hi fb]h]b`g]a]`Uf]hmifYdcfhg"

5ggYgga Ybh& Dfc YWh`c[Vcc_UbX 'ci fbU`

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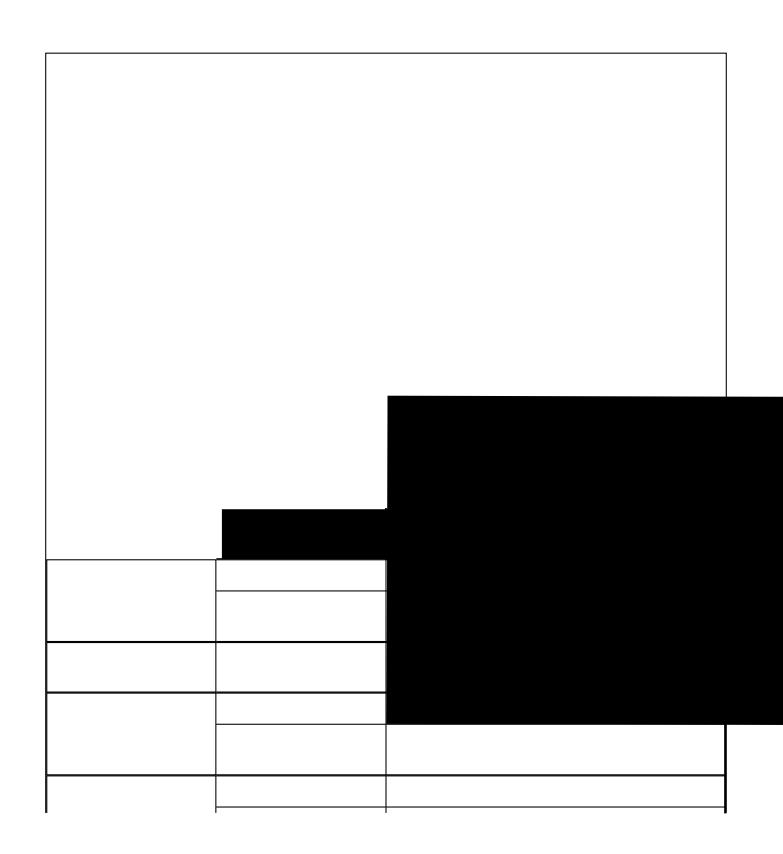
Ghi XYbhg`fYVcfX`h\Y]f``YUfb]b[`UWhjj]hjYg`UbX`_YYd`fYZYWhj Y`ci fbU``cb`U`fY[i`Uf`VUg]g`Ug`d`UbbYX`]b`h\Y]f DD8"`H\YmUfY`fYei]fYX`hc`gdYbX'\\$`\ci fg`cf`a cfY`Zcf`h\Y]f`dYfgcbU``dfc^YWh

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 $\label{thm:condition} $$HYY`c[Vcc_'UbX'c'ifbU`XcYg'bchbYYX'giVa]gg]cb/fUhYfz']hk]``VY'UggYggYX'X]fYWhmcb'h\Y'Y!dcfhzc']ch\UhY\Y'ghXYbhWfYUhYg'UbX'g\UfYg'k]h\Y'hYUWXYfg'''$



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HY'Yd\cbY'9| hYfbU''Gi ddcfhcb'-',) "''' %cf'Ya U]''h\Ya 'cb'Y! 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'fl *) 'XUmg'U'mYUft"'=I'mci
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a i ghfYhJ]b'mci f'h]W_Yhbi a VYf'Zfca '9! hYfbU''Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY'Yj UbhXcW a Ybhgthc
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Ui hca Uh]\WJ'`mfYW']j Y'U'h]\W_Yhbi a VYf'ZVi h]Zmci 'hY'Yd\cbY'mci 'k]'`bYYX'hc'gdY\WZ\WJ'`mUg_'Zcf'cbY''
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; YbYfU``mž'UggYgga YbhiHug_g'a i ghVY'gi Va]hhYX'Y`YVWfcb]\W)``mij]U'Y]h\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ba Ybh'' =b']bgHJb\W'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk]```VY'gHJhYX'cb'mci f'\\circ i fgY'g'A ccX`Y'g]hY'k]h\U`hYfbUhjj Y'gi Va]gg]cb'XYHJ]`g''

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

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i=iWUbihU_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiWXYUh]b[ihciUWW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hiUW_bck iYX[Ya Ybh'i

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