

- 3000 HAK



السفير

3000 HAK

المركز العربي للمعلومات



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 "wT(&+) μZÇD;
 .ÕwWYZU, w7EwCòH7~;ErX-wš|Z:..wZY7

عدد الأصوات التي حازها الياس السكاف	عدد المقترعين	عدد الناخبين	الدائرة	السنة
32912	41886	118986	قضاء	دورة انتخاب 1992
81697	21.084.	379900	محافظة	دورة انتخاب 1996
28467	06201	131.23	قضاء	دورة انتخاب 2000
38.30	6939.	14.973	قضاء	دورة انتخاب 2005

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;M Y{ÁV» w ≡M WAE;AM WMB wX' ¶XÍ {ÁV< [wG
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" &SS' \&SSSĀWMe <W> WZ

~ ;EF;XÍ

Í {MFX“F %SS) + : VX, ĴGŸy@ĴÁ &SS' » WZ% < EĵĕM
' QD ~ ÁS • Á“XŸSU¹MĵBĀ“^D; @ÁEs • Á“XŸ°A
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{Ÿ°AÍ {MEX“F % : VX, ĴGŸy@ĴÁ &SS, EĒ % < EĵĕM
» WĪGŪWĪS • Á“XŸSU¹MĵB; EĀTMXGŸS • Á“X

Ār3X' ĵPXÍ

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ražnĪ ; Ār3XS³, ŌĪ ĴĀM%^o T^oŸ; ĴĀMŸ FĪŪyĀFrđGŸG¹¹Ō
' {TMŪŌ{ÁGĀX} ĴX WĪŪWĪ} XŸĪÁGWŪWY
WŪ¹Ÿ{ŸMŌ{†: çX} - AyĀFrđGŸG¹¹Ō{GŪ <±XW&SS(; WĪ
2; Z^o/EAĀX} ĴX^o <WĪ Ÿ; ĴĀM%^o T^oŸ; ĴĀM^o <~ FĪŪŪTMGW
" ŌGŪŪ' ; WĪŪ ~ W3X^oYĕXWŪŪŌ EŪ^oŸŪWŪ^oZà" [

†EÑ;Ô;{ATGXCUXI

"ÂMETM XAMÁ³ XÁW" <EW< W% - (µNÍ,» ZWÁ T
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 B wXTM Xr^" <wWY ; "XÔ; ÁE_w |XrUXSG' > &SS% » WÁX% Í T
 " <WYoc X; rYAM: wX † |OÚÍ, E' - XWU {ATM w EwGÁV" Xce¹ Xw
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 ° < » WTM Ce YÍ, { ^" X' CTM XÁ " X^o ° |CÔGÁTM CEW< ; W&SS% z, 6 Í T
 è YÍ, | W X " F \ 5E X S ° , ÒB W X y: w X 5 w X r 1 U 1 J » r - a < CTM G < " ^" X r X M
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~ w; ðrZÍ {WTM XETM CÔ; B wXTM XAMTM XrUXSG' > &SS' EwTM ØÁ T
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 "y³ AÍ {ETM XTM MTM X=EF¹ | J; ZÁ X
 " F Y YTM | M WTM @ ~ ; 5wX - XTM CÔ; ÁTM MTM rUXSG' > &SS' µ^o ; µ\Í T
 "{ETM CÍ {ÁTM X^o ~ ; ETM CTM U; µ^o AÁETM XTM MTM X
 Í { ^" N^o ZÔ rXsJ " C^o % WUÍ {ATM CETM M^o Ew&SS' µNÍ, 7^o ^TM > % SÍ T
 "{XÔ; ÁXWTM ^ Y
 ; wX È 8 XTM MTM X=ErXÍ {WTM XrUXSG' > &SS' ; µNÍ, » ZWÁ\Í T
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ÁTCÁVX»VXÍ

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1/2 ĀMŠ TM

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 " : 1/2 ĀTM MTM | = wTM CTM μçTM XTM { ĀTM WTM XTM = MTM WTM MTM
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 žTM - wTM CTM STM GTM » žTM XTM STM GTM WTM ĀTM MTM XTM XTM ĀTM XTM »; žTM vTM ; žTM UTM rTM @ ~ wTM " < 3TM 4TM KTM 1TM 2TM 1TM 2TM 9TM XTM
 Ō9 - wTM WTM XTM šTM Ī šTM TTM 7TM ; ~ wTM CTM MTM PTM YTM WTM KTM wTM Ī " - | > žTM YTM - | ĀTM) " BTM 7TM μTM rTM XTM yTM WTM j XTM
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III ;E-WGIPKSGAY:WX

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 ĀGĀX°@1Ġ9wWc-Y{^TMM[XC5wX 1|TMyTMX¹²ZY{ĀwTMX
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 ĀCTM|XTM], |X' 1XTM|wXzTM wC7, Y|@1ĀJĀc|>Ā' XTMĀBĪ7~ 1TMXZĀĀ X
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 °Y WTM^ °°^ Ó\ zTMXTMμTMX» "VTMwĀTMTTM7{XGĀĀ {XTM0 z-ĀTM†0
 {TMJWĀX{Āš|Z; .YaX~wĀX CTMMTMyTMXĀMTMμTM7°^ Xē†TM0
 "{DAX
 1TM7;3TMMTM7/YB 3/ĀTM\ 1TMĀÉ Ō9;FV° <ĀTMμTMzD;μTMVTMMĀ ĀTM
 »wxTM =.wXTMμTM0(XCz EA°Yμ\7j \zwxTM W
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 'B wxTMĀMwXyTMX ĉA°MTMUTMrTM0.rA;\-r| Ō;XTM} ZW wD;
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žwXy'GÄS•Ö EC"^M»>žÄCÖ(YN; š•Ö EC Ä^a>ž^a LQÖ' WM
"Ä'WCS-Ä^a|Xs•Ö \

ÄU- w^MÜÖW/ž X'^SI ŠTÄZ- w^MÜS5k^Y' <žI ŠTÄYw^MX†Z
", ^D; >wX5k' V^oÄG°Y¹@<wC« -^MG' 1XžÄwX
r<v^M |^MYs•ÄUÄEWD; i>XvYž- w^MÜÖ' E¹@ >žwX^MC5k^Y'†Z
« >v^oBÄM^Y'™[†]Ä> TG\7XÄ@'Y:7ÄM°M †x°K:ÖÄx»>;7;ÄX
"E, ^I "Y? U^MžX^YÖ;
Ä-^{3o}Y^ewZw^M|;7wGw^MW^{3o}W† UÄGÄVX~ wX|XrÄT³ÄM^Y/7
š-ÄX °K;X-GÄGÄMÄW^MY"1>YÄ-|Z°†Zž:r|Ä'vGÖ^{3/4} I w^Y
~ç°^MÖ' WÄ ~ @⁷Y-šwX|Äw¹Ö~;E¹D; ~ WYÄK^YX wX²ä^MÖ
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W\WZEJ|TG XAt^M||XT&

š•ÄÄE WZEJ|GX±^M||X>;7(A^MX|^{3o}Xo^{1/2}Ä\ -wÜSgÄÄ|^o
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} È\ž¹Ä¹z 'D; } Ä¹>"5wX-G¹ÄÄ¹Ä¹Ä¹Ä¹Ä¹{ÄUÖ~¹M<W: Ä¹7T

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EXX-WGJK-F@EX

¥|Uz^αⓇ‡ |>ÓÂ|XCç·xⓇÁ‡ |X^α|C{Á^S·Yw/75wX Cç·XEM9GM9
 »ç>» ;7WY³ Z ;7W^o à çUk :wX w³ ; } MEÂ|XμrXZ^oTMX "w>WAM
 "wÁ^S·Y^o ¶‡ |'X^o ;7 ;6zYadMÁwX
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 ž :wX w³ ;°Y a1^ÓW [Er<> ç^o ¶^o ^ž^o TMX ÁAD ;ë ç^o ¶^o w^o TM^o GÁM^o J^o Y
 WVA^o TM^o 3^o W‡ ZE^o -XÍ {Á^o·X{WVÔ} {ÁK^o·X{D WÔ} - W^o X^o } r^o TM^o e^o ^
 : μ^o Z : 1^o ¶^o G^o | W̄ ž 1^o ÁY^o X : 1^o w^o 3 > | wXÍ wÁK^o ;Y~wWš^o °Z^o ;ZÍ\
 » ;7^o à Á^o XrÁ^o X~wôj | YÁÍ ;ë<w^o Y μGM^o r^o@~wš |Z> ;ZVER^oTM>9
 μ^o D ;» 7Y^o |ZÁXZÁE^o {Á^o TM<Z^o TM^o C^o B^o Á^o X> wX^o XC, wÁM^o X^o r^o ^
 " " Á^o TM^o X^o R^o " XÁME^o TM> {Á^o M^o |@^o ;\ {GM^o V^o ;\ {AGÁ^o·XZUW^o WÔ} EÍ ;
 Ôg "V^o 7^o Z^o ;" F^o W^o A>ç^o ^» ;7y^o , ^y^o :wWZEF^o X {<Á^o X^o è<^o TM^o X^o F^o ; ^Í\
 {Á^o·M^o {Á^o·X^o E^o TM>» wW^o Z^o r^o d^o 3^o X <W^o |^o TM>« :wX w³ ;D^o ÁK^o ;Y WY
 1^o ÁWÁN^o 7> wX^o OZ wÍ ; [ç^o @w^o 7^o rÁ^o TM>X ; [ÀM^o Ú rVž "D ;« V^o XÁC
 W^o 7^o ÁNC W^o - ä ç^o Q^o rA^o ° ¶^o TM> :GÁ^o X ZD ;GM^o V^o ;\ {ÁK^o·Và rX^o ~wôj ;j
 "Bô\^o TM>YÔ ;μ^o TM^o 3^o XÁG^o \ 7^o W^o 8 W^o ; ž^o M^o « :wX w³ ;Í : 1^o Á^o <Á^o TM>Y ;D
 " {Á^o·N^o 7^o R^o U^o > w^o 7^o 1^o ZÁ^o X{D WÔ} X V^o M^o "Bô^o ;j^o Y ; 1^o U^o 7^o Á^o·M^o TM>Y
 μ^o BC ž^o Á^o·X^o {Á^o·X^o Á^o·M^o V^o U^o ;" W^o ¶^o TM> {ÁK^o {D WY5^o @g V^o X> w^o rV
 "n"« :wX^o RÁ^o >ž^o w^o 7^o C^o X^o 5^o w^o |^o TM>Y YÁÍ ;
 ä |M^o ž^o Á^o·M^o X^o {GÁ^o·X^o ° M^o G^o 9 1^o X^o M^o 1^o ¶^o ;Z 5^o W^o X^o |Á^o·^o TM>Y X^o W^o
 š·Á^o ŠG^o X^o | » Z^o X^o YÁÍ ;°YÁ^o N^o ā W^o 7^o U^o ;Z^o X^o °Yā W^o A^o ;7^o @^o ·Í^o 1^o Z^o
 "šGÁ^o X^o Š^o <šG^o W^o Á^o M^o TM>Y
 y^o ;: TM>X^o Z^o Á^o ¶^o |X^o |^o TM>X^o M^o Yā W^o 7^o ç^o ^» ;7y^o , ^z^o ç^o Ôz š^o |Z^o ;» ZV> 9^o X
 R^o K^o V^o C^o : Á^o M^o >Í "Á^o ¶^o |X^o ;= WÔ ;nM^o F^o <7> wW^o ŠSSS ; W^o ;ZV W^o |A Á^o X
 " Á^o È^o ¶^o C^o 7^o Y^o 8 1^o Z^o > F^o ;j^o X μ^o r^o XÔ ;z "V^o 7^o » ç^o ^ rV5^o W^o X^o = ; rX^o " {Á^o·X^o X
 "WÁK^o·Và C^o ~wš |Z^o ; { ;Zē Y^o W^o Ô ; {UW^o 9^o ž^o Á^o·X^o ~wX^o « 3^o Š^o 0^o ·Ú

{AGAG} X {AE~ç: M} G¹AS¹Î VJMB wX {TB ÂM₂X} | X
=:;CÔ; r:wXz; X³s³, Ô ÂD; E'-XrX; X' A||X{†TMX»E; X¹Y
"hXDE ÊAX5WAX

B wXš-Ā ; : MCT

š-Ā ; {TMCS} μA- wX; Ô; ë K; Ô- wCS GAKMCZ <AX³AM₁ V⁷Y
1Z} x²š-Ā ; » I^oK; Ô{YçTM °K; X^oY⁷» wXAX z.; "XAK; X³AC: MX
±XX» wXe^oX » wXeW^oY 1Z} zĀ TĀX {Y^oX {TMCS} zK; X† wG
"HTM Ô{AK; X¹Y 5CĪ š-Ā ; "||TM ÂXErX; [ë^{TMÉ} wM₁y, "o
šGAKrĀTMX³ X^oš •AEŮ rTM wB wXš-Ā ; {TMCS} ĀM wX; [
°YTM Ô-; r¹||TM XErX¹ Z. ĀO Í 8SS+ ; wš-Ā ; šJ^o wTM wG
ĀM: wĀ <OwXĪ z wHĜ ĀMTM Y: "TMZš-Ā ; œBrV"ñçTM Ů | Ů Ā >
°YaTM wMC} ³, TC, Ā <ž^o {tY^oYaTM w¹Ů@; YĪ wY\ Ā X: Ā¹X; [
" WNEž ĀwXrĀ > ĀM^o TM^o X {TMCS} FrVž wX ErĪ rĀTM S
"r:wX{Ā'D; \{AGAX~ wW-Ī;

ErĪ wB wXyTM X¹Fr⁷» wTM rĀTM X³ X^o~ GwYKĜ; [Ī
5wTM X¹YwAX š-Ā ; GĀ~ wTM ŮœX¹ Z. ĀO Í š-Ā ; 1eAĀ XêX
z wHĜ œB rĀ: ĀM wĀ X{||Y: [FŮ 9 Ž ŮXTM X; [: 1/4ĀÉ CTM Ů\
šJ^o X zĀK; X¹ A; Xz "TMXYGTM zĀ wXKwĀM» ĀXÔ; - GĀXÔ vX
{ĀMĜ~ wXTM ±^oÉ \{MTM Ô- ĪwN; \{ZwTM ; ~; ê, aTM Xz wXeTM -TM Ů^o Y⁷
{ĀTM Ô{ĀrX {ĀĀĜ~ wXw¹ «TM» {A; }TM Y{wGw³ <³ @ zTM Ů{Y, Ô
"rTM wN; wTM wĀ {ĀTM X

; Ā zTM; EWTM {ĀTM Ů{† Ů³ 4 μcBB wXš-Ā ; "1L; 7- X: » wX- w⁷
y['Yë < \7 "B; X{a. Kë < {V^a > » C^o YzĀ; X» wXsJE⁷ 3/4 wWTM BTM C~ E

žAV@-r[Ā;7;Z-wX;» \C°Yž wxyTMšJETMMuYTMGMZB;S
 - žTMXŠLE: rA;XÍ ðrV»vU", w||; Ā;7; - ĀXTM XTMQèTM»;7; \C°Y
 - rÑ;Í « |WTMMTMWTM žT:äQTMQTM@rTM1TMTCTMWTMα<VTMAI\ žErTMoM' |É
 "ra;\-ar| ~ @TMYrA;X

â|p> žuwTMI/B wXŠ-Ā ;5rTM1TM1TM "VD, wITMc@GTM1TM1TM>n{ĀTMXTM{TM°Xo>9
 {TM•GTMRS QTMŌTMQTM ĀTMWTMX: MXeU<ĀTM, |^ {ĀTMX: 1TMĀTM ĀTMX5U] r@7
 {AvTM ž;ErX« ĀTM<| {TMĀTMXTMwTMžTM XTM; FcXTM%TMWTM34" < ž-Ā ;
 "n"TM1TMwTM |TMY- "TM< žErD; {ĀTMX> žTMXz wTMVTM

;| 5TM1TM Ī ž-wCšGĀTMy: wXwGEĀM ž{ĀTMXTM{TM°Xo>E, žTMWTM °Y
 {a" | \žYwTMQTM ĀTMMTMQTM@Ī ~ Ā: "QTMà" | r<W> wX{ĀTMXTMQTMQTMWTMĪ;
 CwXTM1TMĪ B wXŠ-Ā ;yš; ĀB wXŠ-Ā ;rTMĀTMMTMWTMĪ iTMmTMXTM
 ~ wTM<:C°Y {žTM1TM7; frATM7±TM3TMà : ĀTM1TM>ĀTMMTMr- QTMŌTMwTMXTM1TMžE> 1TMžTM9TMž<
 ~ ĪwTMN; \ - ;H; ž "A Ī wTMWTMQTM{TM3.wXTMμ; žTM1TM7; < žE> > aTMWTM{TM°TMTMM
 |wXz "A šJ šTM^ žJB B wXŠ-Ā ; »; žeA Ī žTM3TM1TMQTM~; ê, aTMXTM äTMXTM
 ""~ wTMQTMžTMyTM°TMXTMšJHTM; rA\ \ {ĀTMXTM-GĀTMXTMoM

{ĀKTMžX\ {ĀTMwXTM 1TMžXTMÉ 'T(

~ WY« XTM|XTM-wTMCšGĀTMμ\ w % - &; MĀTMQTMXTM rTMXTMŌ; 1TMžTM1TM ' Y
 ; wZTM°Xz "D; r<» wXTM wTMŌ; {XTMXTM34|°Y 1TMž; ZYTM®TM> ĀTMXTM-; KTM7
 "GWTMQTMWTM; CTMXTM WTMWTMžX

Ī rTM7; cUA ĀETMXTMŠ•ĀTMX> žTM1TMĀTMWTMĀTMĀTMWTMŷTMš•ĀTMXTM5WTMα<% - (; M
 {, 1TMžTM1TMWTMzTM7< žTM N; {TM3TMATMY> wTMFTMwTM|UATMŌ; žTM1TMXTM YTM7C; žTM ĀTMĪTM®TMMC
 ĀTMĀTM |°>5WTMŷTM{ĀTMĀTM>{Xw Ī |wXz; žTM5wTMĀTMMTMTCTMŷTMžTMžTM°TMXTMoMTMrTM@
 {→TMYTM žTM1TM<{XTMWTMXTMA; \~ žTM1TM\ rA; \=CTMŷTMžTMĀTM |TMQTM≡TMTMTM; {TM3TMATMQTM1TM@; žTM

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 ë<,w™Z;C@;rMÖ;Cˆ; [\z^K,r^Ó«X|X; [»;ÄM»wX
 } » V, ÄzÄÄX~wš|Z;Í } »;ÄXr| TExo{GAG, ÄZz→ ¹Öz;Z
 "¶,™Y\7™Zw|Y{†:ÍÄ;7w,w7 8™X W
 58 šÄx~wšGÄ } <Fr-Uz;X, ^ |°>Ä;7 Á™;rMY.NXÄM
 r¹XHE^Ó" x|™Ö»wÖ;†A;\; ZzÄGAG-wX{Vá™YwÄz;X
 zW†™,ÄM rE{GÄX3/4 »;ÄMÄ™X½V.ÄÉ \UwJ9-r¼²;Z
 "½V½Uz{Ä™X³Xoš•ÄXéÄÄXéÄÄXÄX~ ~CF; Ä
 z»;½ZVÍ z;X°YêXGMM C ëA &SS%;wÄAjD; ¶¶G\
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 Yz;X58 ¶||@, "¶¶ Ö;Arα\{-ZÄ;{ÄM|ä;\{G™V;~ç™¶X
 Ä™GÖ; {UWgē <Wz;Z zÄK;Và rXä¹ÖozÄK;Và rX5wXz;Z
 ~ Á™>½Ä;EVzW@5Xr-M&SS%µ³;Í °Eˆ>Í n;½ZV5wX
 zÄGÄX ½G™°Y® ½ÄGAG;\™Y¶J;XαY{Í ä|α>{Vá™Y{Í
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 1@,z rVÄX~w† ¶; \{ÄM|ä;\{G™V;~ç™¶XÄe™X zÄB;rX
 ""Cxx
] "½V½™GÖYzÄn;½ZV5wX°Yy†™Z~wšGÄy:wX°X
 "{ÄwX Öy|; Ö«::z X°YoÄB wÄÄX|wX{→ ¹Y°<šG™Í ½Z
 {ÄwX~ç:wX°Yr-rXWY{Vr™\ @~wšMÄX} ZWCr†; ¹Y½w
 šGÄâ|M+D <wÍ "½Ä=C@Y{x Öw™¶;jX;|µ;^Í\z "BÍ/
 z wX†™Y»;ÄzrA;ÄÄ YÄa;W»X°Yj n;½ZV65wX;Z-wC
 šÄ<»;ÄM.NEÄM½ÄYE¶¶;½ÄY;SÄ;½X5WÄ; rMÄMJ"a
 »;Ö; {UW9{ÄV;X°MÄ <BÖwÄ<wÄzÄ@5wX | Í {Ä\ Ö-r|Í/



žē; X¹Y¹M¹ ;7-^: 1/4Y¹ W<Ī z¹W¹M¹ rXU¹YēN¹A; X¹Ā¹GA¹X¹z wN¹;

ū z¹W¹X¹Y¹; Ā«::; X¹ W¹U¹ Ā||>{E¹A~w¹ĀC \~; 5w¹Ō; {@w<r¹X¹

Ō; ĀCĀ¹ TM¹ĀU¹; 1@; X¹ TM¹Ā¹ j \ "Ā¹B¹r¹X¹±A¹; X¹Ā¹K¹X¹ W¹X¹°E¹^; >Fe¹

"Y¹W¹Ā¹GA¹C¹ |°> 5W¹Z¹

5w¹X¹°Y¹W¹ TM¹Ā¹U¹Š¹•Ā¹Z¹7¹ĀE¹W¹X¹5w¹X¹Ō 5M¹Z¹; W¹Ā¹7¹w¹C¹S¹GA¹S¹ĀE¹

1Z¹Ā¹Z¹B¹j \ z¹Ā¹r¹ |X¹°Y¹| z¹; 1U¹S¹Ā¹X¹W¹7¹Ā¹<E¹T¹»; 5w¹X¹U¹U¹z¹; 1T¹T¹Z¹V¹

» z¹A¹"Ā¹| w¹X¹5w¹z¹; 7W¹Z¹ T¹T¹Ā¹^F¹°Y¹Ā¹K¹X¹W¹Ā¹X¹U¹W¹X¹°Ā¹K¹\ 5w¹X¹@¹e¹

"±X¹e¹N¹Z¹T¹Ā¹Y¹» W¹X¹Z¹G¹x {Ā¹W¹{S¹T¹1¹X¹Ā¹Ā¹C¹ Ā¹Z¹

1z¹Ā¹Ā¹X¹e¹Ā¹M¹X¹z; 1X¹ |°> Y¹"a¹z¹ R¹S¹S¹&¹L¹; w¹X¹±X¹°Y¹1z¹D¹} V¹X¹Ī \

} Z¹U¹Z¹; Z¹Ā¹F¹Ī Ā¹C¹@¹C¹z¹;"Ā¹Ī¹/w¹7¹&¹S¹S¹S¹; w¹X¹Ī r¹ T¹C¹X¹Ō~w¹š|z¹{U¹T¹

\¹T¹W¹W¹7¹h¹Ā¹C¹TM¹X¹|³°X¹Ō: TM¹B¹W¹Š¹E¹w¹Ā¹\ z¹U¹; B¹E¹Ā¹Ī<C¹@¹Y¹n¹y: w¹X¹Ō

"T¹W¹W¹; 7W¹Z¹ r¹1/4¹TM¹Ā¹Y¹ ē ĩ; YēN¹-ā¹X¹±>Ī ; Z¹U¹U¹D¹; Ā¹K¹X¹E¹Ā¹X¹Ō

"ēA¹E¹V¹r¹α<: 1/4¹Ā¹C¹ Ā¹GA¹C¹@¹; r¹X¹Ā¹W¹X¹°M¹r¹α< r¹V¹; Z¹W¹Ā¹W¹X¹~; z¹X¹Ō

"h¹Ā¹W¹X¹~; z¹X¹Ō

~w¹X¹|X¹Ī {T¹C¹D¹; {Ā¹A¹"X¹~; ē s|Ō&¹S¹S¹} ; W¹T¹

; z¹w¹š•Y¹7¹ 5W¹T¹; 7z¹W¹S¹TM¹Ā¹X¹~ā¹W¹&¹S¹S¹) ; w¹X¹~w¹š|Z¹~::; X¹«Ā¹Z¹μ¹C¹B

y: w¹X¹|w¹T¹C¹ z¹w¹X¹|r¹7¹Ā¹Ā¹X¹] ā¹X¹{Ā¹GA¹X¹~; E¹z¹|X¹{, Ā¹1<"; Ā¹X¹5¹r¹M¹

G¹μ¹X¹Y¹«X¹|X¹» ūL¹E¹Ā¹M¹J¹"a¹} Z¹W¹Ā¹X¹="Ī ŵ; {V¹Ā¹C¹::; X¹°Y¹E¹Ī |X¹-w¹C¹

{Ā¹F¹|r¹7¹Ā¹Ā¹X¹{Ā¹š|Z¹; 2E¹w¹C¹«1¹M¹šJ¹B¹Ī n¹w¹W¹X¹z¹"Ā¹»; M¹W¹Y¹

{V¹Ō Z¹} T¹C¹W¹Ā¹X¹h¹Ā¹C¹TM¹X¹|³°X¹Ō~ T¹; 7Yē Ī T¹MY¹* R¹U¹Ā¹GA¹X¹Ō; ŌY¹X¹~

~w¹X¹|X¹{r<} Z¹W¹W¹h¹Ā¹C¹TM¹X¹|³°X¹Ō» M¹W¹Y¹G¹μ¹X¹e¹<ē 1/4¹X¹«X¹|X¹

{Ā¹W¹ē<w¹{X¹w¹Ō¹ α¹X¹C¹E¹=:; C¹Ī » w¹X¹-w¹U¹Ī; Y¹{T¹J¹E¹w¹ē<w¹{|<X¹

"T¹J¹E¹w¹C¹Ō"U¹ē<w¹Z¹C¹X¹Ī :°D; \{Y¹ŌD; ~E¹W¹

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:{ÁCWĜĒw {αE7μA}, @V̄OYH7, wBSS+, wWw
 {ÁrX{P±OEx \ZSS* EĚ z "Arα<w-MY"αZĀXE, D ; {XWEx
 š-Ā ; : †V̄, ÁCEwX "1/2: A0 Ex \2/6) + : VXÕ\ rXE- XWĀEFT'ĀX
 š•ÁEz w̄|Z μA » wUeBĪ\ ¥< "X E± O w/znç'Ů9 ~ |U. Á 1>wYz "AÍ
 ÀM- wCšGĀy: wXĪTĊw<n{ÁcTMX{3°Xo} ; UA wX; [; w7{^E14, 3X
 z^aM̄®"Uw>^ĀX{ÁGĀX5wBĪ, 1@, zTTECōy VÍ {X|CōwV;Y
 zwbĪ;Ī wYE"TY°YR3 1VTECō3/4 šGĜ; ZĀM-wŮCy: wXGEM Á
 ĀX' wCōμAEwMx, nMz3X» ŠHECōzēSX-; äM̄; nMGwX;5<
 çEY-wŮCy: wXĀ M̄" {EjTGX~ wĪN; wĀ, 7+XO; -wĀ2K, CōwĀ^
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 °XĪ ~ <wĪBwY} TMX; EF;X; ; 7YEA \ ""3w3>; ; ŷ, ^Ā' X Mxz wN
 {TEwMx "B; Ī; jXrA; \ » wY°A² w » ġ>; ; ŌgYĪ, ĀCĪ9zē ÁwX
 "wĪ@šGĀX» ŠMER|X
 ; [Ō; μĪTM;XYCōTECōÍ wWwM n{ÁcTMX{3°Xo{WwY} ZWw °Y
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 "eE;X E"ĀX{AB; rX~; CĪ9ēU>Ō; {|e|Cō{ÁGĀX~; GĀXE'Y} MC
 °°X{UwCōTMXĀM CōwV;Z {3A"ŌE; B} jTM;YĀM ġ^C TM;YĀK\
 "wŮG e\TG : ° †UzTTECōy XwY" <ŌwC X1/2ZĪ ġĪTG {^aM̄®"U
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 -wŮG E;XEWZĪA; zē z3AFÍ {NEXŠHĀÍ wĀCUfGD {, ĀZIT"U
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 "XŠY;XCX3/4 μAē Á"XĪ|ZEWz^aM̄
 wY: 1/4wĪ Āç|XĀC z 1UĪT\ ēĀÁŌ-; r[; 7Ā; jXxw Í T
 } Ē ĀX~; EwĪŮ; 5TĪÍ \ z "TM;X; » wĪ : 1/2XGX: [ErX5Ā9z "BĪ
 {ArX w; ; ?ĀM;HĀK;XĪĀÁŌ-w\ > XĪ-ĀŌ- EFT'ZSS+; wB; \Ī

WAE» VACUWYGVXZ Š |Zv~ 7<ž vWÍ ÷r@{3AYÓWYAEĀ X
 {ÁWX~ wš |Zx r@» ZVE'V ŽĀK\ - W {Yč†<} 1° |C\ ž E'1, X
 "j 1X ž - WX - MH\ |;" 1X~ wATĀKÍ : 1Y{xNE "5WAXSGWAM: W
 {3° Xon%MF9 ē Š|X' |> o°Y' W°V Ž vW X TĀL' x T°YŌ; " YX{- €
 ~ wMM ē - wG5H\ z; Z {Ā "U» VAC "E X n W W Xz "Aon{Á X
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 ~ wCŠ GĀX' |MĀ XEKŲ °TM; Ā <ž Á X~ wĪ |XāMŠ GĀX YE D; \
 {ā 1X |X X5 w~ r 1/4 ZW X |† W W % MF9 @ 7° Y 1/2 |X ŌĀM ^ r X 1Y
 "WĀK; Y° t | > |» Z W X ° A Ā C e Ā | X { W X
 ~ Á TM \ M |, X | Ā X r r ĩ ; 5 w X ; 1 X e ° C μ \ 7° Y D - w C Š G Ā X » W
 ~ w † | X 1/4 W Ō K X Ō ; » E j X G M < Z V Y { 1 a . K { 1 @ C Š X Z K X V
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Ō; 34 Y 2% - & , MĀCĀ X 1/2 Ā ; 7< w r M Z v ~ w C Š G Ā X y : w X μ e ^
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 r α - W T M B ž T J E Ō - ž A T Ī - ž V X Ā M N Y 1/2 Z r @ Ā X - w C " E X
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 ° Y « V Ō Ī w T J ; \ " 1 L W ; [\ ž Ā G - 5 W 9 - r 1/4 { Ā S TM X 3 A T M Ī Ā A
 Ā M ; 5 M 9 ° TM | > » ; 7 A M E T P 9 W » W W Ā ž Ē 9 ; T C E ° Y 5 M 9 » ž V
 ° - S ; w X x 1/2 E W 9 - w C Š G Ā X » ; C , Č 2 r < W % - % , w X
 " x ° Y n ^ ä X o { X W { X Y ~ ; 7 < " Ā 1 | X Ā TM X ° Y { 3 A Ō 3 4 M , Ā Z
 ž Ā T š ° X ž ā 5 Ā M W W ž a | ^ { ? X 5 W S X » W W 1 U z - w C Š G Ā X
 ~ w C x ° Y W U Y G W X ; [» W U C X Ā M - w T † Ō | E ' Ō { X C } Š \

~w^{atm}X_μGw_μr{?cX5W8Xë<@Á^m|Xz @\Ô;W_μZ_μZ_μQ_μyX_μÁ^μX_μ
 ÂX_μ•X_μžy^{atm}X_μ{Yñ : ¼V_μY;8>: ¼7_μz_μ-^aXy^{atm}X_μ{†^{atm}Yz W_μÀ^mM_μ
 'y^{atm}X_μ: ¼X_μŠ[^]
 Z_μX_μr_μ||X_μOg U_μ | ~w_μC_μ; ~F<Z_μ\,“1X_μS_μG_μA_μS_μ•Á^μX_μY_μS_μU_μ1MB; \7_μY_μ
 š•Á^μX_μë<=¼X_μ ZW_μr_μr_μ@š•Á^μ<y_μX_μž_μ<r_μr_μ||X_μS_μÄE-w_μC_μS_μG_μA_μ°X_μ
 ; Á^μž_μ-) ;w_μAF{1^μYÔ; w_μ“MeB_μ7; ; [=C_μM_μY_μ} ^{atm}; rV-w_μC_μ
 μw_μ|C_μw_μ|w_μX_μ |M_μAX_μ°o_μAX_μ~; [w_μ>Y_μY_μ @7_μS_μ-Á^μ ; \{AY_μ7;=1_μ@7; ~“a_μ1_μC_μ
 “1_μ> 1_μY_μ ; w_μeY_μ1_μA^μM_μY_μ{³°X_μS_μ•ÁE^μ
 ~' aZ_μÁ^μX_μ°TMX_μz_μÁ^μw_μC_μU_μ; \{AY_μ7;ê<r_μX_μ» 9^μ“.GTMX_μ; [Í -w_μC_μμ_μ-[^]
 À^mM_μZ_μB_μw_μX_μ, w_μX_μÁ⁷X_μT_μ7; 7; y_μA⁷r_μX_μ+^a °Ò_μÄ_μ |X_μ°Y_μ; Z_μÁ_μ Z_μÁ_μ
 Y_μÁ¹°r_μA⁷7; 7; I_μZ_μÁ^{atm}X_μÁ_μ°_μX_μμw_μ|C_μ; ë<“Á_μ||X_μW_μÄE^μV-’Š_μ; D_μX_μr_μX_μ
 ä|_μ7_μB_μ9ž ¼_μM_μW_μ°Y_μw_μz_μ+X_μ°°[^]Ó; D_μ > X_μ E_μW_μ~ w_μW_μX_μO; šG_μA_μX_μ@
 : ¼_μC_μ š•Á^μž_μ[E_μr_μ1^μÍ š-Á^μ {x_μ °M_μÄ^{atm}M_μe_μx>] » ;K_μÒ_μ¼_μ w_μW_μ»; 7
 Ô; 5^{atm}°\{A^{atm}C_μy_μX_μY_μ7; ; E_μw_μ1_μU[^]Ó 5_μ8 \ “{t¹1_μEX_μ <Z_μX_μ°Y_μr_μ1_μX_μ
 °Y_μ¼_μC_μM_μB_μU_μE_μW_μμ_μA[^]“n”, w_μX_μ, w_μX_μ°“Ä[^]Î\ Á^{atm}w_μC_μU_μ; 5_μF_μX_μs_μ•Ö E_μV
 \W_μÖ_μM_μÁ_μr_μÖ\U_μÒ; Z_μX_μ“Y_μ7_μ\{X_μX_μ; S_μ3>7; ZW_μW_μVZ_μ» q_μw_μ°TMX_μ1_μM_μ
 ž_μ|M_μž_μx_μ°[^]Ò; „ A[°]Y_μ- Š_μ> \X_μr_μX_μS_μG_μE_μÄ_μM_μE_μX_μ°Öš_μÄ_μ<°°X_μμw_μ|C_μ;
 “\U_μÒ; S_μX_μZ_μW_μM_μ•Á⁵1_μC_μ
 \Y_μ7_μB_μw_μr_μX_μ»; 7; E_μ“E_μU_μX_μ° r_μo> r_μr_μ||X_μÄE^μÍ -w_μC_μS_μG_μA_μ°||C_μT_μ
 E_μW_μ“W_μw_μ>Ó; D_μÁ_μG_μÁ_μX_μ \Á_μM_μ@; W_μÁ_μC_μM_μY_μ; E_μx ž[^]GW_μ|{Y_μ7_μ\{?
 êN~; “TM1_μC_μ \Á_μW_μ~ w_μ1^{atm}°Y_μ3>Z_μW_μž_μw_μX_μz_μÁ[^]Á^μX_μÄ_μW_μÄ_μ; Y_μY_μX_μ»; 7
 W_μÁ_μž_μÁ_μM_μ@\{GW_μ|V_μE_μW_μÖ_μW_μ•ŠTMÄ_μ<y_μ8TM>~ç^{°TM}Y_μW_μ7_μZ_μCK_μG_μX_μY_μ
 šIšTMW_μX_μX_μ~“TMAA_μX_μn[^]äX_μ°; E_μVoa_μJ_μž_μv_μAg_μ°W_μC_μ3/4 o_μJ_μY_μ„ ^
 “~W_μ°TMX_μEr_μ [9_μÔ; žTMU_μÄ^μX_μÄE_μÖ^μ Á¹|X_μμw_μY_μ°Y_μ1_μX_μW_μy^{atm}W_μ“W_μ \{?>
 ±X_μ°[^]7_μYo» Z_μW_μR_μA_μ |<y_μX_μ““E_μSTMX_μO; E_μw_μX_μ°Y_μ; r_μX_μ\{X_μX_μë¼_μ>y_μ„ ^

#FAS K

2008



» VACUWYS • AXYI 3° X

2008



f&SS, HArX v; AMVY-wCSGAY: wX

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2007



ISS+L> VACUWAS-Å ;r:WY{°X

2008



ISS, HV°† X'EWX'E™X

»wX EwÍ ~ TM# ^ÓW; [\Ej TM X XO ~ °TM<-wTMX< {EwÓ;“Ò
{rXxí ^TMX 1/4 TEV» Wj TMVR% T; 7Y) TRW-wG°X

ë Xg°\Er [b9®^GM\~; EF;X~ wXÖAr TMX T*

{† UQÖWwXê TMÇ) <wY-r 1/4 19E-XWYÔ; µ; TM; X-wGSGAKj °° ^Ó
{XrXÔ; çT< zW E B \wXç TM°Y.NXAN E wXÔ; 7Y} ZWAXZwax
". [r<°Y. [Ç\ê TMX. [ê TMYO; wA } t† ^šGXWAG† ^ÂX=C “Ò
°YwLEW ÆEÇê 1/4 X{A} <{XrX} YWZ% - & ; wXµçB 1/4 wX^r<YU
»; 7X-wCAË \ "5W<7 } Lj WMA Tj y [DZ wX} → YÍ w TM B \ z ; FwÇ
{XrX} 1/4 † | > ZAE » C°YVj ; ~ TM; EW » ZV LÍ } ZWA [X 3/4
è wWwXê AX@ “Ò w°Yw TM B \ z ACt Ç) MA {AM VSKÍ z [; IX
Ô; y [^ - > X} ÁU > w eO « TMZ » ; öz ; IX-w eO YFz Y% - (; M
“°1 TC \ "n r 1/4 Ç = TM X Z ; Ç z WME Xg° Çz ; Ç Ô; “BË « TM X Z “ > X
"1 ZH M Y µ g° Ç E » C°Y@Kw° ° XGA j Æ Xs-AB XµçS TC; ; [

"wZw \ wXA] ç TM; V~; EW° X< Y | U< wAU

RAE TC Er g° - wGSGAKy: vX » W&SS& ; M X { Eiv ; ä° Xµ; K \
ÃGTMV ; \ TM Y AW^n z EN; Í { ? E TM Y 1/4 E y TM † < 1/2 Z Y Ç † XA “°D;
1/2 Xz 1/4 M ANÍ ÆGTMV "WVWz → 10Í ÆAX XEÇÔ; » wXGMUd [
ÂX{A} D; \ {AM} @; wAX{I} wYÍ ãW; w [w {Y°D; y X< w ÔÍ
1/2 AA "wZ TM ^ÂX{X TM X - \ ; X d LÍ ãx w M 1/4 TE \ e K; Ç Ö [>
% - , \ {AAX% - * ~ wö Z µçB n {Ao {Sx TM<-wGSGAK X 1 2 ; 7
{rXx

z Yw X GAG† [> } XFWZ TM B z \ wXÔ; C; X C {Y°D; » ; 7 E
°YsÄwXj wÍ \ 7 ^ TM D ; ~ Î w X° M V D ; µEÍ \ z r @y ; “ TM š J “ a <

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» Μ. Π. Α. Μ. ε., ΧΕ. Π. Ι

2006



Π. Σ. Σ. * Ε. ζ. ; Χ. Σ. • Ö Í ÂΚ. Χ. Ε. Δ. ; Ε. Σ. Ι

Í] ĆG: [w>Î ~ wĀX^{3/4} » žēSTMX ĀB; rŌĀD {α: X {t^aXĀL_Y
 š•Xz^M wX[~]: wĀX WTMWZK; Ō {AEWĀ ĒG D; » Ć^Î \ {YH⁷ @ Ć
 "wĀM^e X
 °YĀM^{||} @; » wĀXĀK_X r^{ITM}X_μ: Yž_e Ō°Y {Y_°D; ~ wĆS GĀE\A\
 » wĀXĀK_X r^{ITM}X; Ō; ēTMYz w³X r^{ITM}Ī ~ TMA: wĀXTM μ_{CB}
 āM^{ME} @EY⁷ / ĭ wY-ETM rV⁸ ž³ wX[~] * XēBĪ / {ZTM X[°] °TM[^] ĀM^{||} @ Ć;
 D⁶ > Ō; r^{||} @ ĀX^Y °D; 5C⁷ U⁵ @β w[^] Ā' X[°] K; Ō {Y_°D; ē { - X-G⁹
 {Yw^{||} Ō - wTM Ō - Ew^{||} Ō Ew^{||} X - w^{||} X^Ō; ~ w^{||} X; » C[°] YĀ; ĆTM M; E[~] X
 {X[°] X; ETM Mz X^{||} Y; @ Ć > w^{||} ž^{||} X[°] Y[~] Ō - TTM Ō Ć^{||} G^{||} W^{||} Y
 » Ć^{||} G^{||} D; ~ w⁷ °TM; 7 < Ā' XSI W^{||}; | w[~] X[°] Y » ĆTM e^{||} X^{||} X[°] YāW^{||}
 "3A \ 1/2 TMA³ M

{ME'X=EF} « 3Y

ĀM- wTM GĀX_y: wX {Ā^a X Ew^{||} X GTM V; {ĭ š•ĀE[~] ĶA &SS%; M
 {Y_°D; v G^{||} w^{||} K ž^{||} K_X | wX^{||} @ ĀĪ {† ĀU XTM V^{||} Ā M Ā z MEX[°] F
 ē Yw^{||} ē³ Yw^{||} Ō° YGMTM < »; ZTM 7 - "M⁷ @ ĀĪ^{||} w^{||} B; wē A ž ĀK_X
 ' * K: 1 X^{||} Ć ž - "X^{||} YTM < «:; Ć XĀM^e M^{||} Y ž MEX=EF Y[°] r w^{||} Ō
 šJTM M^{||} Ew^{||} ž A; \ Ā^a A \ Ā^a: K »; X[°] Y: 1/2 Y[°] ž MEX=EF y^{||} Ō ē α w^{||} Yw^{||} Y
 {† ĀU^{||} - wTM G_y: wX «TM W&SS&; wX «TM YĪ \ "ē Z_ē X[~]; "M^{||} w^{||} e^{||} D;
 =EF X^{||} w^{||} M^{||} °TM Ā Ĥ C »; ĶY[°], {ĶA- {MEX=EF μ; ž^{||} 7 - "TM X_μ ĀTM X^{||}
 ~ XTM Ō[°] E^{||} X^{||} w^{||} S^{||} Ć ž Ā MEX ~ w^{||} w^{||} X: M^{||} o^{||} ĀTM | X^{||} G^{||} 9[~] r^{ITM} °Y
 ; Ī E^{||} w^{||} ž E^{||} X^{||} M^{||} Ć^{||} @ \ w^{||} š•ĀĀ^{||} \ ~ w^{||} w^{||} 1/2 Ā Ć^{||} K^{||} + X^{||} ž ĀTM S^{||} TH
 {† ĀU^{||} + X^{||} Ō^{||} 9[~] w^{||} Ā^{||} V^{||} 7 ē M^{||} G^{||} μ_{CB} {Ā^{||} w^{||}; S[°] Yā w^{||} W^{||} Z^{||} U^{||} » Ć^{||} - Y
 E^{||} X^{||} Cē Ć^{||} ž^{||} w^{||} 7^{||} °TM: w^{||} °TM < Y^{||} E^{||} Ā' X {Ā^{||} Y^{||} 7 Ew^{||} 7; | °TM {α^{||} W

} 9|AÂX=CEJ™OKwxXš ÷U{Í “^→™Z,rMžM̄ Ĵ™X ;“N9÷™GAX
 ""=ê> B~wGeU
 Í {†™JwX~wšC̄1|™V̄ ÷wGy:wXreU&SS&,w{Z;Y{™WYÍ \
 “WM Ĵ™C̄~;EFX«³|Ø
] “B7~wP

] E™Pš•³, Cē™VμA÷wCšGAXy:wXr{Ác™X{³°Xoš•ÁE1/2™VWEžT
 ÂwY/ĤC» ĴAY&% “žÁ šĂc|XvžSS* B wX» žW :; \Ĵ {XrX
] rXEW™G; °Y{@YžHJUĪ;Zy:wXĂÁ™PžHJUÀC̄Y BĂ~;EW°X
 žM̄Uoaš|^ĂX{x™X{^G™V̄; {XĐ; °YĂc̄^°t^Ă'XB wX, wXĂ:7X
 À™c̄XIXA°Y; ĴM̄ĴĂK; Gw™G°Y~; \“?GwXĴ: wμ;” Ī E¹Xy'E'YwAU
 °Y, “wDš> ÀMŽ; Žžur°X“F: B̄C̄{™D; ~rA\“r³XwM̄A^» wĂX
 ëÁwXzXrX] E™Pš•Ö °M^GwX°E“XĂM̄J;ăM̄XĂZw~;5“@9
 YXc̄šĂ<juw̄Q{<wG|Yc̄A½š>E“X, ĂZēxX³C̄; [YUCXrX;”X
 {YwX{¹N̄; μ;YĂM̄SI“D; \, wXμC̄{V̄AÔ; {™D; } U| \“~;EW°X
 žE'ĂĈÀM̄wEJXwG{Í Ô; ~;rM̄C̄} P̄C&SS* FĒ z“Ar<T
 “(Kv̄C̄) W̄ wEJXē; UĴC̄Ô; ~;rM̄C̄³/4 {Yc̄D; } P̄C̄
 ĂEJ™C̄ĪB žVēNwJ̄ă|M̄V̄OĂM̄C̄™Xw™Y÷wCšGAXy:wXμc̄^
 žyĂE:žyĂA> \C°Y~;ê³X~;EĂY~wĂ ÷“™>ĂX{?NGV̄X{tĂX«³
 žĂZw; {ĂV̄V̄{1@Ă;žY{<wEĂ;žY{³|YžXGw \{XšwYĂ;žM̄ V̄Ă
 “n-w™C̄» žwX{XC†EB wZw
 ž,6&Í Ā“^D; @ĂE{Yc̄D; š•ĂE°MGwE“<{tĂX³/4 ~Ă™>5@
 V̄Y{ĂM™GwV̄||^Ī\B žVēN³Ar<» ĴĂž žwX«XĐ “™>ž% -'
 "" Kwj| ~ KwĂM̄Ažw» Īž\; X-êš>\°YXμk

» Ą' SS 3rV s3Y» wU{tAX34 °YFĚ z "A "9 wX1AM TMA wW7
 7TJ2YV^2 "† | ^Ó-EĀ™XS•Á XW3K:äU r<Ě9 E"Ā|ĈĀMEĚ^Ó-ēX
 r<Ě9SHJU,6;EWWTJ2 "† | ^Ó\žYwX1"Ñ;µ;Y7AM-w r<X34X
 žSHJU;EW<{-3q|Ĉ-;E- X WAMC@Y1/ĀĚ>;7MACI\žXX> T9; »:7
 5Y9š•Ö \ž^, 1Q ž Ą'Ī ; š•Ö :] "BĪ7 Er[Ě @GW™ »;7°M-Ā VZ
 7MĚ\5wX-GMĀĀ>:EĀ™XĈ>; Ā'"~\ēX] â°X7EWĈ 7MĚ\
 WWS™D; YFĚ\ P-SĈ, WTV{XWY: E°Y{<ME> \C°Y~WĚ; r<X5wM
 "™Ā^>» W

WĚ Ā|X±Ā;X', \X{a:W- Ą:A :MCT+

Ĉ|ĈWĚ-A °Y±ĀX', \X{a:W »WA {ĀV~;7<ž-WĀ™X{^;r<' Y
 r1M 3M7<» WĎ; ;[»9- wGy: wXµĚ^ "µĚ-Ī; ' YWMMAM
 :T<w>{<Ā ŌV|{t°Xy™WĪ {ĚĈ~WĀ|X~5@; ĀĀ\;"Xs•Á X
 {a:W »ġW'; °[~ [o:-wGµ5™\ "hĀGwXw^äX» W7ē<š™
 Āx- " X344š•ĀXZ "D; µĚB WĀY; ž^ Ĉ: 1/4AM±ĀX', \X
 }™ĀW3:W-ErĪ ;\5°Xy™Ā|E>»7y,, ^{ĀW7" WGU~™Ĉ}XC
 W WY°Yw°:W »WAr<ž@;7°Xž::; Ą' X°X|wXĪ °†ZžĀ W
 °YrA;7» \ē™™Ī\ĉĀĚ ±Y Ī W<žWĚ-A =Gw™w{XĈĀMEĚĀW7
 "h°wX
 n±ĀX', \XAM š•3, Ĉš•Ā XwZB WpW-wGšGĀXy: wXyŠ|Z
 {a:wX Ą:A =Gw™ĀMš•3, Ĉ; [µĚB °Y' Mž°:wX2 "°> <1/27^ Ā' X
 {Y°A«ĀZAY "ĀGĀG°:wX« VY°MĉĈ| š•3, Ĉ; [»;7MACI\žZsĈ
 Āx™X: 1, A F-<±ĀX' ĀĚ ; nM&SSSB wX°™>Ī Ā"°D; @ĀE
 ; [oĀM š•3, Ĉā|MžXC "Fw ġMµwY "E>µĚB °Y {tAX-EFĪ

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2006



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š•³, Ȯ°¹ᵀᶜ \ {ÁMÑ; ~; EF XF < 7WAG°ᵀᵐ } ZW; 7r < 7ª.wXᵀᶜ < W@9
ž wXWY » Ȯ°¹ᵀᶜ \ {ÁX {ÁGWT; «:; Ȯ X°YĀ \ žÁXWX, \ X {ª.wK »; ž; â | ȮY
“WZ ZWᵀᶜ MĠ \ 1/2K 7rA \ ZK -ᵀᶜ @ÁE Í < BIXYAM ᵀᶜ WĀX
Í »; ž | Ȯ > ž rX; [-w 79E B Ô; : 1/2ª > ž AK; X WEC {ÁM 7e X8Ȯ
y: wD; °M 5WAG žª.wXECš -Á | X r | ȮY: E° > 7r ĩ ; {Y°D; «ÁZ
~ W@Ȯ - WĀM < BĪ \ žY°D; Í WĀU {Áᵀᵐ > Í WĀ - [W \ žÁGWT;
: °D; Í {WĀCĀMᵀᵐ > ĀXĀ \ žWAK 7E WZ WĀ = MY » C°Yž M X°SX
; \ XG wᵀᶜ G; \ °¹ᵀᶜ \ » Ȯᵀᶜ, Ȯz {Sᵀᶜ 1ÁM nĀE āM \ 5WĪ WAK žAM
» WXĪ ± ÁX WX, \ X {ᵀᵀ WĀ | Ȯ > ĀX {1r ĆĀ \ žWĀW \ {AFĪ ± ÁX WX
Ȯ ĀYĀ > Ó ĀX {ª.wX³/4 } ZWY; D; » Ȯᵀᶜ, Ȯu5W > {W XĪ \ žn “ᵀᵀX
{ᵀᶜ W < ĀM 7š•³, Ȯ°Y r U E F “” nĀE YēN ~ W ĀX S J “Ȯ > } † x M; 7r A; 7AM
{ª.wXᵀᶜ D Ā Xā SXU < 3/2K X D ~ ÁG E; Ȯᵀᶜ ; š•ÁE - wᵀᶜ Gy: WX
ĀEF X Ā | X WY μª {ÁM ~ 5@; Ā < ž S E W Ā \ «: wX E 8” Y
” 1/2 W X : 1/2 AK; Ā : 1 X C 1 ᵀᶜ W AK Z W A Ā M Ā Ā Ć Ā : W X
~ W Ā X μ C B ° Y {ª.wX y Ā S | X r @ = Y {Y°D; ~ G M R S S % , w X B; \ 7
} ZW ž Wᵀᶜ X ° ᵀᶜ ? 7r ĩ M; “Y” Ȯ C {ª.wX »; 7A J W Z E C } | x; 7 ž E C
WĀ ° Y } ZW Ā X W C Ȯ y ᵀᶜ W C ° Y e X ~ “ᵀᵀ S U - W Ā X “E J X V x š - X W
” n Ć ᵀᶜ ;
ĀM {ÁM - Ȯ ᵀᶜ A ° ᵀᶜ žª.wX ᵀᶜ † < {X W ᵀᶜ X X G Y - ᵀᶜ W C S G X ² ā ^ Ó \
Ȯ C U E {ª.wK ~ W Ā M 7 y ᵀᵀ M Ȯ X C r A Ô; {Á' Ć } {ª.wX e ᵀᵀ M > Ā X {Y°D; o
ĀM - Ȯ ᵀᶜ Ć W C Ā M E “-^»; 7A ᵀᵀ M r A; 7 \ ~ W Ā X ~; E F X Ī W W Y Ā M
Wª.wK 1 X S J “Ȯ > Ā X S - Á | X {ᵀᵀ G Ā G } “Z Ā U F E X {ᵀᵀ M X {Z Ć Ć } {E° X
W Ā x M; 7 r V “W Ā W A Ā M - W Ā X {ᵀᵀ M Ȯ - Ī W ᵀᶜ ~ W Y Y Ā | @ e A {1/2
Ā M 1/2 B e Ā Ô; W; C » W ³ e X 8Ȯ » 9 n Ā K; \ W Ā M o Ā X r Ā X {ª.wX
° Y 1/2 B 7 Ā X Y W Ā I; - ᵀᵀ M {Ȯ : 1 Ā X ᵀᵀ M X } † x M; 7 Ā X Wª.wK Z W A

"h{@D;} MCVVWA> C
z Š | Zē Á ̇, \ "X{^a.wXAM̄š³, ¶XYwX{A¶i ; ~ GM&SS&, wXÍ \ T
{AU; | X¹¶: I ~ RUWV^a.wXAM̄š³, Ćš • Á "XwZÁwErX-wCy: wX
"YKW
{^a.wXAM̄š³, Ć°¹TCĀ "D; RÁEs • Á "XwAN"?ÁMBSS) ; wXÍ \ T
:r. wX{Á-X°XŃC@AE 5@ǵ žw̄ ; {U•A yXk žx>Ć{a "i ;
°MÁXK="¶X³AF~rǵ; 7EA°XC&W, XAXIY°D; ¶UŹĀ Ā ~ "TC
1/2TH ÁĒ \ 3/4F>šAU^°Y¶; CIXŠ^>; 7-wCSGÁXAMy | WZwZy°D;
°Yaŵš • @, ÁZVX5Á•Xš • Á, |X« Á 1/2Ew } Ē «: wXrǵU 1/2 Y
Í ±ÁXAXAMETXGM Ć|ÁXeU³AF5WÁÍ ~ AĉXrx°YÁEC) SSS
{Y°AÍ wÁVf; | X°MwĀ; 7rǵ; 7A' X-wCSGÁIYwXUwTJ95wAX; |
Zw4TJĪ; μwH⁷ <wUY±X VZwZ{YB 1/2MfYzEA\ "ŌŪ; EĀ™X
"XSGX{x \ 1/2A°TPYwB
°YFw9zē Á ̇, \ "X{^a.wXAM̄š³, Ć5WÁŪ ŵEr-U&SS) μĉ³; 7 v7
°Yz-ê<\ {³AFē<E; rYAM̄š³, ŌĪ {TCwX{wA α>> 7z-wCy: wX
E°>¶Y 1/2X{Y°AŪwA {^a.wX-GwTC{š \ ž ¶XÍ Y¶i ; 2; "M@7
5SŪ 1/2NC-EĀ™Xš • Á "X="TWZEFXÍ ēÁÁD; wÁŪēš<{^a.wX ÁĒ
EĀ™Ā <wĀ™T: "EŠ&SS* >; "AÍ nĀ™X{³|X°~r-MXrX°Y7Fw@
āN°Yz "TXÍ \ >wXÍ ~ Ē Wž³AF1XSJ"q>ōw̄; GZ°^ Xw4; ZĀĀ@
ĀLĉY°Y{Y°D; š +>žY°D; {ÁV°M°EXI¶TMĪ ÁM7; 7rǵLĒ; Y
WĪĆ°M | Gw9: 1/2M1/2\ 7z "TMXÍ : 1/2TJ \ 7z 1/2MĀMŌŪ; {tAX
±ÁXw> wA {U 1/2TY{XrX°Y7Fw@{^"Y5SŪeŠ>{Y°D; >9""{X°X
{X°YĀĀ wÁ: ZUÁ; 7°Y8Í ±X> 9žFĉXμ¶FwŪ; {, † <{^"YĆ³/4 °Y
"XrX°Y{wMÁMĀB; rX°YŪ°¶TJ ~ Wĉ³Y 5W-TCFw@ 5WZŌA™\
wTMŌ >> wW Ć>L; 7X rTEMwĀO™T wX 5w> XŪwAX TĀ} MFM

'FwÄ ;: [y'É>"ÁÇ Ô¿>Â°XrMúv<} ³TM> \~;"Yfç?°YaWk{XrX°YÍ
 Ô; †w† ^Í Á'X: :wX{XrX°YÍw@Í "UJY{YçD; 1/29-r¼W» ;éAÍ
 "µ;ŸÍEÍ Ô; \r¼ ;: [µ' <
 {Xw -w;7 <ž-wÁp|X~;EFXÍ { } ³TM>XEWAw{^aMÍ ®"U« |°^Ò
 µç;7% ~wš|Z} ³TM>Uš•Á"Xy: wZ š|ZâMÁXWÍª·K» \SMÍ 1/2Br>
 -wCšGÁ"ÉX{-?µçS|GµwED% ®"U» ;7+XZÁÍ, XZwY&SS,
 ž•³, Õ B;C-ErY"WC) @Í 8SS) ~wš|ZÍ 1/2AM|w|CÁÍ"ÁX wÍw
 Ô; ~wç³Y <™G, Áž^aVXWZ, ZWAMÍš•³, C5WVZ š|Z, ^TM>eU
 "» µUwWY -wCšGÁë<Á;ZED% \, ë<} ZWÍ@, Ç» ž, çMÉ" :wA
 ÀM|GwED% ®"U» {ÁŠ|XÁçG :wA=MEÍÁWÁ;7@wY» w
 }™VXZED% \, | ¿Vë<W}™VX-wš|Z; 3/4 » 9. çW² "«> XEWÍ™G
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"ÉXwš•Á"Xy: wWÍ ÁEŃ; Í¿Z®wX"ÉXÍ½™MYEU"?ÁM
 V|@Ô; À™ZMÍZ š|Z; Í =ªX³/4 EWSJ"ªÇ°Y» wWÍZ6-wCšGÁX
 ÉªXwš |Gž¹@, ÇÍ wUz š|ZCX[e™Á| <wç³>ZMÍÁ™>Ô; Ížª·wX
 VÍÍ ; - ¿UEÍGX» ¿wX» ;á|NÍZ {YwX{ZMÍÍ µGwX{GwX|<Á<
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- "™XçBrY" °™>{Á Áä™G { } → YÍ š-ÁZwZ6-wCšGÁy: wX] "Á
 †EŃ; » wXš-š^VÁ"ÁG™VÁ ZÁMÍ@, ZÁGÁZÁ "™MECÁXçGÍ,
 wVY"~çBr|X~ÁG™V XŠJ"ªY{ÁGÁGT;@ { } → YÍ ¿ {ÁM "A°Y
 {™Mwç, ^šGwD; Í ; "ŠÍ ; w™\°XWÍw™Uz XÁMZA, ^Í ; "ŠÍ ;
 "hZ \A\~w;Ô9 wÁÍ; yNÍ ~™>ÁXEWÍ?~°X

#FAS K

2004



فاس (٤-٣٠) ٢٠٠٤

2004



فاس (٤-٣٠) ٢٠٠٤

^{oT}† |^oW^r dU → ¹[X̂A]A^ŃY^JX̂» wX^YwE:ĀM^oMC^o | ;“[^]-^oW^o» W
 ë<~W^oW^o{³, M^o Z^Y X̂ 'rĀGTMV̂; \Ā^oW^oX̂w^oT^o “-TM z̄M^oY^JX̂
 r<W^oTM^oB\z̄G^oX̂, ç^oX̂^o Y^o» wX^Yz̄ w^oTM^oĀM^oAME^oU^o ~ Á:“^oU^o
 'h% - - μV̂;» z̄W^o r^oU^o/cU^oš•Á“X̂» j¹ĀV^oĀ^oĀ^oY^o/š•Á“X^o5^oX̂
 Ā^oT^oŃ^o 'z“D; r^o“[^]r^oA^oŃ^oY^oW^oz̄@} ZW^o {[^]TM^oX̂~W^oW^o» ;Ń-^oW^oU^o “[^]
 ~TM†[^]» W^o V̂, z̄X̂^o1/4^oĀ^oM^o“U^o V^oU^oTM^oD {³AG\z̄TMY^oZ\“D; } ZW^o
 z̄ç^oTM^oBA^o1/7^oE^oX̂, “TM“; ;7^o“[^]» j¹Ā^oV^oš•Á“X̂U^oz̄“A5^o@7^oç^oO5^o@7^o“¹Ā^oM^o
 ~êš>=E^oX̂z̄“D; \Ā^oW^oU^oX̂G^oE^oÎ; EĀZ^or<{Ā^oY^o/ {W^oX̂^oŃ^og^oX^oY^o
 Ā^oM^oE^ow^oX̂¹Ā^oY^o{G^oAG: 1/4> w^oY^o7^o ZW^or<U^oW^oY^o \w^oD^oW^oY^o \w^oU^o;7^o
 v̂C^or^oY^oz̄ → Ā^oŃ^o \w^oD^oW^oY^o{V̂D {[^]“^oTM^o1^o?“ Á:“^oU^oz̄M^oU^oç^oB^oY^oμ^oäx̂
 š•Ā^oW^oY^o3^o |[^]W^oz̄ç^oX̂Ā^oM^oW^or^o@W^oZ 1/4>; Ā^oX̂Ā^o E^o |ç^o†^oU^oW^o
 y^oTM^oX̂» ;z̄X^oO^og^oTM^o7^oW^oY^o7^o \C^oY^oz̄“D; μ^oW^oY^o Á:“^oU^oç^oŃ^oO^oĀ^oX̂Y^o/z̄#A
 'w^oTM^oX̂y^oTM^oX̂š•Ā^oSG^oV̂/Ī j\z̄“D; r^o“[^]Īz̄M^oX̂ Ā ;V̂Ā^o\z̄Ā^o:“^oU^o
 š•^oM^oĀ^oŃ^o ç^oĀ^o|Ā^ow^oU^or\{Ā^oV̂±š Ā'XB w^oX̂ \w^oŃ^o E^o1/2^o <Ā^oE^oĀ^oĀ^oX̂
 “¹Ń^oĀ^oĪ ē^oW^oX̂Ā^oM^oG^oV̂/j \z̄“D; r^o“[^]Īz̄Ā^oV̂±š Ā Ā'X^oĀ^o:“^oU^oç^oy^oTM^oX̂
 } ZW^oE^oç^or^oX̂r^oJ=“U^oz̄“A^oY^oU^oz̄Ā^oç^oW^oE^oç^or^oE^o \z̄“ç^oX̂O; {X^oTM^oX̂w^o/7^o
 w^o†^oTM^oY^oç^oE>w^oE^oç^oŃ^oŃ^oX̂w^oŃ^o4^o °Y^ow^oç^o Z\W^oç^oY: ç^oU^oTM^o†^o“^oX̂z̄M^oU^o
 w^oç^oA\z̄Y^oW^oĪj ;G^oU^o~W^oŃ^oŃ^o BCĀ^oU^oE^o“>w^oŃ^oE^o \z̄Y^ow^oX̂1/5^o@7^o
 š^oSG^oV̂/Ā Ā^oX̂Ā^oĀ^o•X̂Ā^oĀ^oX̂eĀ^oĪ {Ā^oM^o†^oTM^oY^o1/4> w^oX̂Y^o7^o{Y^oW^o“BĪ/
 μ^oG^oX̂} <ç^oç^oTM^oX̂; |ç^oJ^oç^o; |:TM^oĀ^o ĩêW^o†^oTM^oY^o1/4>X̂“ Á:“^oU^oç^oY^o{³TM^oŃ^o
 ‘h^ow^oX̂†^oTM^oY^or^oŃ^o: [E^oŃ^oŃ^o; ēt@ç^oX̂ç^oX̂Ā^oE^oW^oĪ Ī ‘BĪ

wE^oç^oY^o~wç^oX̂Ī T

z̄{x“~X̂ĪV̂; Ń^oW^oE^oç^oY^o~wç^oX̂ TM^oĀ^oY^o1/7^oç^oY^oŴ ~^oW^oç^oY^o:w^oX̂/ç^o

» ĵ°Z» ; 7WMy @ > w† 3MY° XžwV° Y{ PTC & { 3KwŠ Tz EAĀ' Xj \
š• XžwV° Y{ † 3MY° WE° G » wxē < Ā° Y / E° - | ° G ; » I / žwY { VCP° A 7AM
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žwY° w ; ĀMP° ^ Ó wVY ; rAĪ ; μcŠUwE° G Y { Vc° XĪ Ā w - wG° TM \ X
° Y - wG - E @ 3X° ° || ^ Ó \ » wx X \ S P H E G w VĀRNŌ > w° M W ° TM B \
jurX X Y " { A Š° TM X W Ā XĪ Ā A ° Ā ; r X X Z E w ^ » w W || ° G U Z Y w Ā ;
y° 3 X Ā ° X \ 7 N ; ° Ā " ° Ā Ī Ā XĪ Ā Ā D ; { A ° TM X - ; G Ā X Ō G ; Ī XĪ ~ T W ;
Ā FN † ; B g r < & S S ' ; M P G « V C e S \ ž r w W w G Ō ; ; Ī X « V > B Ē Ē
- w C S G Ā X ; 1 Ā M k e w M k Ā X P B > ° Y š • Ō W Ō ; ; Ī Z w X ° Y » w W
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~ x - | ° M | > w ž š E w w \ ° Y E | ° G X ° Y w A ; | ° G ž < ; ? 1 Ā ū z S | Ā Ī
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E V Š | ^ » ; 7 A Ī / @ ĵ ^ ĵ U » ĵ° ^ » ; 7 4 ^ w W z | w M B Ē ® " a X ® " U W x ^ » ;
" B Ē ® " a X C @ w \ E w Ī ē r ' B w » ; 7 \ C ° Y { Y w XĪ Ā K ; X W Ā X ; C a r Y
- r 1 4 T M \ | ° T M Y Ā Ī : Ū \ ; - Y » ĵ° ^ » ; 7 4 " ZĪ ° K X ; [\ 1 Ā w X 1 2 w > 1 2 M W X
ž A " a X o 8 ž Ā " o X Ō w X ° Y ; 7 ; | Ī ; 5 @ < z G Ā š • Ā j \ { Ā " o X u r X ° Y w
w E ° G C r A Ā M B " X = T W Ń ; » ĵ° ^ » w x ZĪ ; [w w X " Ō Ō w z z D » † ^
] D ; - r 1 4 T M > Ā X Y E w Ō @ Ā { x ° TM X = T W Ń ; { Ā ' X w < - 3 4 " Z < ž Ā " S X
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ž w M W ° M e ° TM X { Ā ' Ō { Ā w XĪ C ; E Ī Ÿ ĵ° TM X - ; Ū Ī ; { S Y ° Y ZĪ \ X

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"HAKX

1/2Yr<» ;ÁwXw³W¹°X₂¿&SS) YwMP(;¿^» ;on(ATMX¹°X₀~â|M
~w†³Xy^oT;7₃¿<W< FwX^o „TMAGZ^o“^D; @ÁEš•Á“XGWTMUw¹NxTM⊙
zÁwXTMÁJ;H7^o WY&SS) »wMÍ ÁETMXš•Á ;y†TMÁz wXAMV> B;X
{ETMX¹ {ÁwX- w<XÍ ÷r@{†TMUÁrVwBrTMU/s•Á“XAXz;7<¿
oEG\A|A\&SS) »wMÍ ÁETMXz wTMZ; °Y “-TMOrÁVX» wX äÉ
{ETMX¹ ;{UwE{Y^oD;µA!;TMXÍ {aAMYÉÍ CxX} BC&SS, ;wX
zB,AMP“UMÍ {ÁV^oµrXECÉD; zÁwX¹†^o¿&SS* FÉ z“A\
“wMÁTEwYGw^o{Y^oD; ;TMX<{TMX¹^aMTMEwA;\

wzTMJwCòyXwYz wA^AM^aMTM@“UrTMgXÁ“oX~;EwòšÄ<~5@
Ô;A:ä^aXTMJwC^o“UTMMzGD;{Áç^oX~wTMX^oY{Y,CÍ rTMXw;7
@XGwTMWéÁwX wÁE\{Y^oD;YwC^oeXwYTMXšJwEAWÍ ë|TMX
zÁÁTM“U^o^TMT/; ,†<Á:“UTMY&SS* FÉ {WYÍ nEXz”Ao;wTMg^oX
°YÁÁ:“U^oš•Á ;rTMJ{Yw|W\“oYTMECzB wX“K{^wMÍ nEXz”AoU
“rB wXz;¿Í ;°Yµç|AcX@“B^o¿&SSS; wMwBÁX“^†|X{WY

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!;“TM{, ÁZÁ] »wXz<“TM¿>ÁX{Ac|C~wH7;» ;Z~wCšGÁY: wXrV^o
»w^oz “SXwTMYUTMoGN/“TMX_uä<AMµTM≠X₁ á°X_urX^oY=“wTM ;
:1Xš|Uz “oXë<~MTMX~wTMN;» ;TM¿TM¿u\äxX!;“TMÍ {är-X{X^oX
»g<z;“oXz“ÁÍ {KEÍ °o>ÓwY;7;] “^¿u\äxXAM ;XTM~wTMX
“<wWY;1Á^o a|>Í“Y; [zÁwY;Á“TMMÍQ;¿?~“TMB;X} †Û wTMB
µrXÍ ä^oX} wAZwY;7M-wTMXGw^o¿ÁTMW” ;“oXoZÁMw^oÁTMU

#FAS V

2002



РСС&АМІс.с, СС.А“XVZ/Š/Z“?D ŠG/ES“N““> XXY-WCSGAX“EX



êT^{am2}““> XZWI h(ATMX³°Xo

Ā XSHġ†E@ZBĀG^{TO}^Ō;µw̄TMeX^r;“oXÍ w̄EWMZ^oMĀĀXĀ“oX
 “Ā\EĪ,ĠĒ Ī;~W»\“<Ō;ĀEWMG^oYwE;ZzE_o ^~ Á:“CŪ†TMŌ ħ^o
 Í 3A\ĀWY²“>r[^]ĀĪ\z^x|TMYµäxXYWĀ;{TMY¹z^o ħ^oĠĀĠ“X
 {ATMXµrXĀMāSX^rTM[†]^Z^{^o}TM^oŌ«B{Ā“oXµrX_o 1>;°[\{AWX
 Ī w̄EY^rTM[†]^ŌoĠĪ^r~“TMXĪ {→ ĪŌz ħ^oTMĀM-wr^oX^{3/4} z̄ wX EY
 ĀM[D^oZ 1XC¹ĀZ “TMXĪ w̄EYz w̄EĀM<w̄EĀXĀC» w̄EYTM\“ E₁X
 z̄w̄E M W ĠĀ ĀX Ā:“CŪ†TMY. [r¹TMĀM|;X¹z^o ħ^o†| \ĀWY¹E~X
 šJEĀMĀC₅@š^oMW; [“ Ā:“CŪMTMW^oX» ħ^oTM^Y. 1/4W^oE;Z^oXW
 ~w̄EĀX⁵@{U¹/TMYw̄Ezā|>çEY{ĀTMX{^a.wX} 9 Āz̄ wXĪ W₂X
 3/4 \z̄;“9w̄ETMC» wX^oĀMē<“TMZ»;7/4 |TMZĪ; ĀXWZTMS< z̄ oX^o
 šJ;N^oX¹ \X¹W^oXĀM₂TM^o;°Yw̄EĀ ĀXW^oY;7Yw̄ETMYwXēBĪ/
 †;“TMXĪ, ĀZĪ→ ĪŌĪ ~ YwXēD w̄EwX“Yn¹Ez “Ao^oçC^oX¹†;?°[\{ĀTMX
 “rB;“ĠTĀWY¹/
 rñĪ; oĠĪ^r~“TMXĪ| \“TMĀ ~ Īz<SS^oµ₂z̄^o/r^o<w̄EY^z;7Y~w̄EĀ\
 z̄ wXĪ 1/4TMY^oYĀĪĀM>| \“TMŸŌ; w̄EĀVĀ“oX»;r³X¹ ^Ē Ō;~r¹ĀĀX
 {V\ēK₂|X¹ \“TM^Y. [r¹TMĪĤ^oCEĀY() } > Š>w̄EĀ¹rYzē₂w̄ETMYz^oç^oŪ
 :w̄ETMX XĪ^o ĒĀB;w̄E^z;Ā^o†Z⁻ w̄E ħ^oŪ;: [Ō;w̄ETMrV^oh¹Ez “Ao
 “{Y^oE^oXĀTMz̄^oX^r YwXēĀZ; w̄E^o%
 “hĀ^oĀM¹/Y \“TMX¹<w̄ETMĪ; ħ^o B w̄EĀN; \T&
 oĠĪ^r~“TMXĪ ħ^oĠĀĠ^oY5@Ā Ā[^]Ď; š^oĀ^oX¹µĀN {ĀV};Z⁻oĠĪ “\
 “w̄EY;šJ;N¹{YB} TM^oĀ>ĀXĪĀX¹†^oç^oz̄ rñĪ ;
 {Ā“oXµrX^o WĀM₂@\o¹ZĪ} ēU₂ wXĪ ĀĪĀTMX₂@;XŌ; {XTMX₂w̄E^z/
 » wXĪ : 1/4K₂>Y¹z̄ 1/4TME^oŌ; ēĀĀTMX₂-GMĪĠGM₂A 1/4ĀĪ : [w̄E>:7
 °w̄EĀB; \;ç^oXĀM [rTMYĀ<“oXµäx₂µ^oYw̄EY. 1/4TMŌ; {UW⁹
 “ēĀ» \C^oY;çTMX⁻“>°Xz̄⁻TM^oX^ooĠĪ^r~“TMX{→ 1Y^o. 1/4TMĀŌ} “B;7

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 "YwXTM⊕; z; çTMXTM † |^a" 1UTMOwX wTMYTMž 1/4|@z "oXz; çTMXTM°N
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 žaĀM|@Ā; EwTMZ; »; TMYwCE † ^» wW { } TTMU|O{ĀTMX~TMXĀM|@Ā; \
 {ĀEwĀ ē XTMŌy XTM^u|Uw " {^wXTM † Z| wTMĀ, CTMXwTMU> {YTM⊕; » ž
 " @TMYrTMXTMĀGĀCTM - XTMGTMžTMUTMy; "ĀXTMSTMJTMUTMrTMMTM⊕ wTMD wTMyTMXTM
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 EĀYTM SzEwTM» çTMCO; 2; žTM wXTM 3TTMĀTMXTM|wTMŌTM çTMrXTMĀGwTMMĀ; ĀGāXTM
 ĀM wTMXTM ĀTM|XTM{TMWwE\ ž āTMXTMYwTMŌā "3-Ī ETMXTMyTM~TMĀwTMYTMHTMC
 "⊕ † |>Ō; çTMĀTMXTMžTMdTMŌĀTMXTM jTM ŌTMaTMXTM
 "j ZĪ \ "HTMCĀY) STMCrATMŌ; "TTM\ wXTM°rXTM» ŌTMSSTM ; wXTMĪ ; çTMĀTMwTM7
 °Y{XTM⊕; 3/4 ŌTMGTMXTMuTMwTMgTMyTMXTMĀTM } ZWwTMŌTM-wTM⊕; »; žTM-wTMGTMšGĀX
 {3TMXTM} "Ā; XTMB wTMXTMyTMXTM XTMN {YwXTM{ĀTMrTMŌ»; žTMāTM|TMYTMžTMGwTMMĀ; ; FTMXTM
 vETMK {XTM» çTMŌ; } MTMžTMĀTM@TM °TMžTMGwTMMĀ; ; |wTM-XTMĪ 5YTM9TM dTM r{ĀTMXTM
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 "ĀTMwTMzTMkwTMzTMāTM {tTMXTM çTM»; žTMSTMJāTMāTMĀTMXTM|ĀTMwTMXTM
 āMĀTMwTMXTMGwTMMĀ; oTMĀTM~{ĀĀTM wTM@{ErXTMwTMM|@; µTMçTMB {3TMXTM € <rTMV
 wTMF<žTMzTMĀTM{TM°TMTTM-wTMHCCTMMTMŌ; {YTM⊕; çTMMTMžTMĀTMwTMXTMYTMYTMXTMYTM±TM°E
 - çTMXTM"ĪTMUTMĀTMçTMĪTMŪTM⊕; °TM†TMXTM°TMā>žTMMTMYTMBTMrTMEwTMYTMŌ; - wTMEwTMYTM ^TMÉ
 wTMrTMMTMYTMžTMĀTMBTMrTMXTMETM] rXTMwTM† |TMYTM°M; "ŪTMžTMwTMXTMYTMĪ ~wTMXTMyTMzTM⊕;

#FAS K



β w Á H E I x Á q X E F I



{ H E X I a w X ^ W G E F I

"°@;rX|wVzKwxXZÄ°TMXEF°TMX~¶X:MC(XWYëME'QAMX°TMX
 Ô; {UWÖvzÁ EX« T;çX~WÄAXµ;ÁX°Y°E'Ä|Q=MMY{Xw \
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EX TÀ Uè TArjx rÀ XEWÍ

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rÀ XEWÍ Xs ACW M

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р&S, E-WC GÁÔ; EFI »; "CWCW@

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2001



f&SS%l' C^α XEWF μ₃B "A" XrxM <w^α Ce YI, Y5W



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