

Accepted Article

Title: Biodegradable Polyhydroxyalkanoates by Stereoselective Copolymerization of Racemic Diolides: Stereocontrol Mechanism and Polyolefin-Like Properties

Authors: Xiaoyan Tang, Andrea Westlie, Lucia Caporaso, Luigi Cavallo, Laula Falivene, and Eugene Y.-X. Chen

This manuscript has been accepted after peer review and appears as an Accepted Article online prior to editing, proofing, and formal publication of the final Version of Record (VoR). This work is currently citable by using the Digital Object Identifier (DOI) given below. The VoR will be published online in Early View as soon as possible and may be different to this Accepted Article as a result of editing. Readers should obtain the VoR from the journal website shown below when it is published to ensure accuracy of information. The authors are responsible for the content of this Accepted Article.

To be cited as: *Angew. Chem. Int. Ed.* 10.1002/anie.201916415
Angew. Chem. 10.1002/ange.201916415

Link to VoR: <http://dx.doi.org/10.1002/anie.201916415>
<http://dx.doi.org/10.1002/ange.201916415>

! "#\$%&' (\$()*+ , #* - . - \$'#/ - (*0(1#(2%3+) - +42%'%#3%*%52"6%+ 7#8#* - 9%'": (2"#1+#+; +<(5%9"5+= "#*"\$%3>+42%'%#5#12'#+?%5. (1"39+ (1\$+ , #* - #*%; "1@A"0%+ , '#8%'2"%3+

! "#\$%&' (&)*+ , - & ./0# 12' 3 04560**#,'789#' : # ; \$/4\$**+, '78)" : #=#66\$**+9,'78/#>#6=0&0*?^9,'#&.'@8)0&0' A2B!2' : C0&?#,'

#,' D/2'!2' (#&)* - 2'12' 3 04560**E/\$F2'D/2'@2'A2B!2' : C0&' DO; #/5G0&5\$F' : COG'45/%' : \$\$/# : \$H5#50' I &=0/4'5%**>\$/5' : \$66&4* : \$6/\$# : \$J'KLMNBOJPM" I &'50 : 'H5#504' @BG#00'08)0&029CO&R 9\$5\$45#5020 : 8' '<,' E/\$F2'D/2'72' : # ; \$/4\$' D' : #/5'G0&5\$: ' : C'G'9#0'0'S\$6\$)*" I &=0/4'5T" : "H#0/O&\$"U'#E# ; #E#\$6\$'V\$=#&#&"'IIBJXKJX">'49'&\$%"I5#6%' +9,' E/\$F2'D/2'72' : #=#66\$**D/2'72'>#6=0&0' Y&)' - < : 86#C' I &=0/4'5\$'F'H9'0&90'&#&.' (09C&\$6\$)%ZY - IH (["EC%4'9#H9'0&904'&#&.'@&)*&00/'D'=4'\$&*"Y#845' : #5#6%4'4' : 0&50/' (C8 #6'MN)LLB^]KK** H#8 : " - /#<#&' *****@G#00'6#8/#2#6=0&0R_#84520 : 824#&' H8 ; ; \$/5&)*&f\$G/5\$&\$'f\$/'5C'4'#/5'90"4')=0&=#'#6'&_#5'5C0'0&.'\$F'5C0' : \$98G0&52'

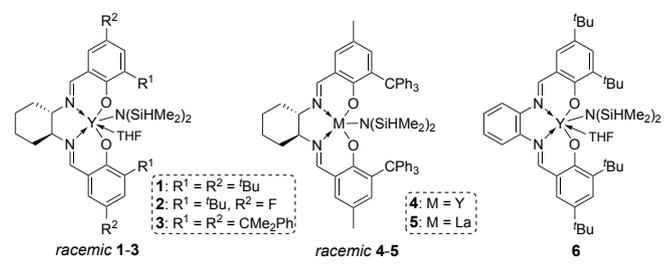
B)32'(52'S#950/'#6' ; \$6% C% . /\$ % #6_#&\$#504ZE1 - 4[/#0'#8#a80'9#644' \$F' <\$. 0) /# . #<0' ; \$6%G0/4' . 80'5\$'5C0/' <\$. 0) /# . #<6'5%'&' #G<0&5' 0&=#/5G0&54' #& . '45/8958/#6' . '=0/4'5%'0&#<60' . '<% '4' . 089C#&'&') /\$8 ; 42' 1\$ \ 0=0/'5C0' <\$4&5C04'4' \$F' E1 - 4' '4'4\$ \$' #& . '0' ; 0&4'=0/'6'G'5&'&' 5C0/' <\$# . 0) /# ; ; 6'9#5'\$&4'4'4'9\$GG\$. "% ; ; 6#45'942' (\$ \$=0/9\$G0'489C' 6'G'5#5'\$&* 5C0' 9#5#6%b0 . '9C0G'9#6' 4%&5C04'4' \$F' <#950/'#6' E1 - 4' C#4' <00&' . 0=0&0\$; 0 . '#5C0'G05#6B9#5#6%b0 . '450/0\$40&095'=0/'&)&B\$; 0&*&') Z9\$; \$6%G0/'b#5'\$&' \$F' /#90G'9' 9%96'9' . '\$6' . 04'Z!'#BJD7^** c' d' #6_#6') /\$8 ; [2' I&' 5C'4' 9\$G<80 . '0' ; 0/'G0&5#6' #& . '9\$G ; 85#5'\$' 458 . %' ; \$6%G0/'b#5'\$&' _&05'94" 450/0\$9\$&5\$'6' G09C#&'4G" 9\$; \$6%G0/'b#5'\$&' 9C#/#950/'45'94" #& . '5C0' /0485&'&' E1 - 4&' ; /\$; 0/5'04' C#=#0' <00&' 0' #G'80 . 2' f \$45' &\$5#<6%' 450/0\$40&095'=0' 9\$; \$6%G0/'b#5'\$&'4' \$F' !"#BJD7^f'0' \ '5C'/'#BJD7^Zc'd'@5*"S8'C#=#0%'06 . 0' . C') C8G\$6'098#/#B \ 0' C5" 9/%45#6&0'4\$5#95'9'E1 - 9\$; \$6%G0/4'5C#5'#/0'C#/' . '895'0" #& . '5\$8)C' ; 6#45'94" #& . '0' C' <5' ; \$6%G0F'&B&_0'5C0'G#6' #& . 'G09C#&'9#6' ; /\$; 0/5'042'

9C#&'4' C')C6'9/%45#66'&O' \ 5C'#'G065'&' 50G ; 0/#58/0'Z&e['\$F'OPK' i'OJKj : **4C\$' \&' 9\$G ; #/#<0'5C0'G#6' #& . 'G09C#&'9#6' ; /\$; 0/5'04' Z04 ; 09' #66%' 50&4'60' 45/0&')5C[5\$' '4\$5#95'9' ; \$6% ; /\$; %60&0' Z[BE[E[2' 1\$ \ 0=0/'** E+Z%[BN1S , '4' 45'FF' #& . ' </'5560' * #& . ' '54' C')C' &e' #& . ' /0#65'=06%' 6\$ \ . 0) /# . #5'\$&' 50G ; 0/#58/0' Z#") MLKj : [' G#_04' ; /\$9044'&') <% ' 45#& . #/ . ' G05C\$.4' . 'FF'98652' \&9\$ /\$; /#5'\$&' \$F' 9\$G\$&\$G0/4' \ 5C'#'6\$&)&'0/4' . 0'9C#&'&'489C'4'NBC% . /\$ %=#0/#50' ZN1U[\ 5C'05C'66'Z@5[#4'5C0' ; 0& . #&5') /\$8 ; *'60# . 4' #&'&'9/0#40'&' . 895'6'5%' #& . ' # . 09/0#40' '&' 9/45#66'&'5%' #& . ' &e*' /0485&'&') '&' # . 09/0#40'&' 45'FF&044' #& . ' #&'&'9/0#40'&'5\$8)C&0442' (C84"58&") 5C0' 9\$; \$6%G0/' 9\$G ; \$4'5'\$&' 60# . 4' 5\$' E1 - 4' \ 5C' G\$ /0' . 04' /#<0' ; /\$; 0/5'04" <0550/' ; /\$9044#<6'5%' #& . ' 9\$G G0/9' #6' # ; ; 6'9#5'\$&4" #& . ' <85' < /\$# . 0) /# ; ; 6'9#5'\$&4'4'4'9\$G G\$. "%5C0'G/G\$; 6#45'94'#/0'6'G'50 . ' . 80' 5\$' 5C0/' /0#65'=06%' C')C' ; /\$. 895'\$&' 9\$454' #& . ' 6\$ \ = \$68G042' - 65C\$8)C' <#950/'#6' E1 - 4'9#&'&'9\$ /\$; /#50'=#/'\$84'4C\$ /5' #& . ' 6\$&')0/ ; 0& . #&5') /\$8 ; 4"85\$'9\$; \$6%G0/4' \ 5C"G ; /\$=0 . 06\$&') #5'\$&' /0#65'=0' 5\$' EN1S" 5' /0a8'04' 4 ; 09'F'9') /\$ \ 5C' 48<45/#504' \$/ ' G05#<\$6'9' 0&')&00/'&' 5\$' # . # ; 5" &9\$ /\$; /#5'\$&' \$F'0#9C'5% ; 0'F'4' . 0) /\$8 ; 42' ' ' : \$G ; #/0' \ 5C' <\$4%&5C05'9' ; #5C' \ #4* 9C0G'9#6' 9#5#6%4'4' # ; ; /\$#9C04' 9\$86 . ' ; /\$= . 0' <0550/' 49#6#<6'5%' #& G\$ /0' #& . ' 9#5#6%4'5' 58&') \$' \$' #99\$G G\$. #50' . '=0/40' 48<45/#50' 45/8958/04" #& . ' #F#450/' /0#95'\$&' _&05'942'\&'F#95'5C0'9C0G'9#6'4%&5C04'4' \$F' E1 - 4'=#/'&)&B \$; 0&*&') ; \$6%G0/'b#5'\$&' Zc gE[' \$F' 9%96'9' 0450/4' C#4' <00&' . 0=0&0\$; 0 . 4'&90'0' ^K4^+L' #FF\$ / . '&') E1 - 4' \ 5C' . 'FF0/0&5'45/8958/04' #& . ' 450/0\$ /0)86#/'5'042' EN1S" 5C0' G\$45' 9\$G G\$&' #& . ' ; /\$G'80&5' G0G<0/' \$F' E1 - 4" \ #4' 4%&5C04'b0 . ' 5C'(\$8)C' c gE' \$F' !"# \$8 <85%/\$6#95\$&0' ZI' "#\$8S7[2^L06C' 1") C6% 4%& . "\$5#95'9'Z+([EN1S' \ 5C' , /' Z . 0F'&0 . ' #4' 5C0' ; /\$<#<6'5%' \$F' /#90G'9' 6'&_#)04' <05 \ 00&' # . #90&5' G\$&\$G0/'8&'54[8 ; '5\$'K2]L' \ #4'4%&5C04'b0 . '<% . '49/050' %55/'8G' 9\$G ; 60' 04' 48 ; ; \$/50 . '<% '505/# . 0&5#50" . '#&'&'9' #6_# \$%B #G'&\$B<4Z ; C0&\$6#50[+ - !* . * - ! , 6') #& . 42^* \ 4\$80&'9C0 . ' EN1S' \ 5C' , e'm'K2JL' \ #4'4%&5C04'b0 . '<% '5C0' c gE' \$F' !"# \$8S7' \ 5C' #6_#6' #8G'&\$' #&04^+P . ' 9C' /#6' '&'5'5\$ /<' <' /+ /0' /0#95'\$&' \$F' n&@5m' \ 5C' 9\$Z[BN'NB . ' G05C'6B0'MB<85#&0 . ' \$6^*J . ' 9C'G'8GZ[4#6\$; C0&' 9\$G ; 60' 04^+I .) /#50 . '&0\$. %G'8G' <\$ /\$C% . /' . 04' \$&5\$'4'6'9#^*OK' #& . ' 4#6#&B6') #50 . ' /#0B0# /5C' G05#6' #G . 0' 9\$G ; 60' 042^00 . ' (CO/0' #/0' FO \ 0'4899044F86'0' #G ; 604'\$&'5C0'4%&5C04'4'\$F' E1 - 4' \ 5C' #6\$&')0/ 4' . 0' 9C#&'&^OM . ' 489C' #4' EN1U' #& . ' ; \$6%ZNBC% . /\$ % <85% /#50B#1BNB C% . /\$ %=#0/#50[ZEN1SU[2^P90N , ' ' ' ' \ 4 ; /0 . '<% '5C0' c gE' \$F'5C0' /#90G'9'6#95' . 0^+OX . ' #9'96'9' . 'G0' /\$' 6#95'9'9' . * \ 0' /090&56% /0#6'b0 . '5C0'4%&5C04'4'\$F' ; 0/0956% 4\$5#95'9' EN1S'=#' 5C0' 450/0\$40&095'=0' c gE' \$F' 5C0' <\$B4\$8/90 . ' /#90G'9' 0')C5BG0G<0/0 . ' . \$6' . 0' ZI' #BJD7^f'0' 5C0' 48 ; 0/49/ ; 50 . ' f 0'

C12'#D52'#1+

E05/\$608GB . 0/'=0 . ' ; 6#45'94' 5C#5' C#=#0' f80i0' . 'G\$. 0/&' 09\$&\$G'04' #/0'5C0' G\$45' \ . 06% 840 . 'G#&B#G . 0' 48<45#&904'&' G\$. 0/&'6'F02' g \&') 5\$' 5C0/' 6')C5 \ 0')C5' 6\$ \ 9\$45' 6\$&B6#45'&)* #& . ' C')CB ; 0/F\$ /G#&90' ; /\$; 0/5'04" ; 6#45'94' C#=#0'&\$ \ <09\$G0'&' . 4 ; 0&4#<0' 5\$. ' #6%6'F0' #& . ' 5C0')6<#6'09\$&\$G\$2' 1\$ \ 0=0/' \ CO&' . 4 ; \$40 . '\$/ 60#_0 . ' &5\$' 5C0' 0&=#/5G0&5' 5C0/' . 8/#<6'5%' #& . ' /04'45#&90' 5\$. 0) /# . #5'\$&' '&' #G<0&5' 0&=#/5G0&54' /0485&' '&' 40=0/0' ; 6#45'94' ; \$6685'\$&' 5\$'6#& . F664' #& . ' \$90#&4'4' \ 066'4' \$5C0/'0&=#/5G0&5#6' 9\$&40a80&9042^0 . ' (C84" 5C0' . 0=0&0\$; G0&5' \$F' F858/0' ; \$6%G0/4' '&968 . '&') ; 6#45'94'4C\$86 . 'F\$984'\$&'<\$/0&0 \ #<60'G#50/'#4'5C#5'#/0' 4845#&'&#<60'&' <\$5C' ; /\$. 895'\$&' #& . ' 840' #& . ' 9#&' <0' /09'960 . '\$/ . 4 ; \$40 . '\$F'&' \ #%4'5C#5'#/0'0&=#/5G0&5#66%'&&\$98\$842^M . '&' 5C'4' 9\$&50' 5" ; \$6% C% . /\$ % #6_#&\$#504' ZE1 - 4[+^N . ' # 8'a80' 9#644' \$F' <\$ /0&0 \ #<60' #6' ; C#5'9' ; \$6%0450/4' 5C#5' #/0' <\$. 0) /# . #<60' '&' #G<0&5' 0&=#/5G0&54'^*X . ' C#=#0' 4C\$ \&') /0#5' ; \$50&5' #6' #4' # /0 ; 6#90G0&5' \$F' / ; 05/\$608GB<#40 . ' ; 6#45'942' h#58/#6' E1 - 4" ; /\$. 890 . '<% ' <#950/' #& . ' \$5C0/' 6'=&') G'9/\$ /\$) #&'4G4' F/\$G' <\$ /0&0 \ #<60' /04\$8/904" #/0' ; 8/06% 4\$5#95'9' ; \$6%G0/4' 9\$&5#&'&') #9C' /#6' 4'50'&'0#9C' /0 ; 0#5'8&'5" #& . ' 5C0' /5C0'G#6' #& . ' G09C#&'9#6' ; /\$; 0/5'04' 4' #&' # \ . 0' /#&)&' 0 . 0 ; 0& . '&') \$&' 5C0' 60&0)5C' \$F' 5C0' ; 0& . #&5') /\$8 ; '\$&' 5C0' \$B9# /<\$&'G#_&') 5C0G' #5 /#95'=0' \$F' /# \ . 0' /#&)&' 0' \$F' # ; ; 6'9#5'\$&42^N<3 . ' - G\$&') 5C0G" <#950/'#6' ; \$6%Z%[BNB C% . /\$ % <85% /#50' E+Z%[BN1S , * \ 5C'5C0' G05C'66') /\$8 ; #4' 5C0'4' . 0'

.0&\$504'G05C%6'48<45'580&54'\$&'5CO'JD7'/'&)[*#9'96'9'. 'GO'/'\$F'NB
 C%./\$/%<85%/9'9#'. 'Z1S[⁸⁴&)]/#90G'9'55/'8G'9#5#%454' EoF+
 48; ;\$50.' <%' 2m84%GG05/9'. 3. B<'474#8'96%. 0&O[
 9%9&5CO' #&0. "G'&O' Z4#89%[⁶]'&#. 4' Z: C#/'5' O[2]' &#&'; #/'5'98#%#'
 /#90G'9'9#5#%454' F' \ '5C' <86_%/'5/'566')/;\$8; 4' \&45#60. '#5'5CO'\$/5C\$B
 ;CO&\$%' ;\$4'5'\$&4'\$F'5CO'4#69%'&#. ;/\$. 890.' ;/O'F0956%''45#9#9'
 EN1S'Z4\$5#9#9'5%'&' 56+1'5/'#. 4*+5 5, *'p']] q[\ '5C' #'C')C' &G'8; '
 5\$'OPOr: *' 7&'8; '5\$'O2LX' \ 'OKL')sG\$'ZD#[*#&#. '6\$ \ '. 4; 0/4'5%'Z8'd'
 O2KO[⁸ &. 0/' #G<'O&5' 9&\$'. 5'\$&42^{OL}. 'Y'&O5'9' /O4\$685'\$&
 ;\$6%GO/'b#5'\$&' F' !' #BJD7^{f0} \ '5C' O&#&5'G0'9'9#5#%454' Z%3%[BF'
 #&. 'Z939[BF' #85G#5'9#66% 45\$; 4' #5' LK q' 9\$&=O/4'\$&' #&.' %'06. 4'
 O&#&5'; 8/O'Z%3%[BJD7^{f0} #&. 'Z939[BJD7^{f0} \ '5C' p']] q' 6)6] #&. '5CO'
 9\$//O4; &#. &); \$%#Z9[BN1S, #&. ; \$%#Z%[BN1S, \ '5C' #'C')C' &G' \$F'
 OPLr: 2' 3 0' #4\$'. 0=0&5; 0. '5CO'. '#450/O\$40&095'=0'; \$6%GO/'b#5'\$&
 G05C\$. \$6\$) %' 5\$' O&#&6'0' 5CO'. '/095'; \$6%GO/'b#5'\$&' F'
 . '#450/O\$G0'9' G' 58/04' \$F' !' #56+1BJD7^{f0} #5'=#/0. !' #56+1'
 /#5\$4' \$/ 56+1BJD7^{f0} !' #BJD7⁸⁵. Z05C%6B48<45'5850. ' JD7[⁸ &5\$'
 450/O\$40a80&90. ' 40G'89/%45#66&O' (BEN1Sb+ : *+(EN1S' \$/ +β
 EN1Sb+ : β(BEN1SU' \ '5C' 4\$5#95'9' #&. '4%&. '\$5#95'9' 450/O\$<6\$9_ '\$/
 5#; 0/0. ' 450/O\$<6\$9_ ' G'9/\$45/8958/042^{OL}. (CO' 450/O\$40a80&90. '
 <6\$9_ 9\$; \$6%GO/4'\$F' JD7^{f0} S8' /' JD7^{f0} S8' /' BEN1SUB+ : β+BEN1SU'
 \$/ ' (BEN1S1; B+ : B+βEN1S1; *' \ CO/O' EN1S1; ' d' ; \$6%ZNB
 C%./\$/%<85%/#50B#1BNBC%. /\$/%CO; 5#&\$#50[*'9#&'<O' #4\$'; /O; #/0.'
 5C/\$C' . '/095' 9\$; \$6%GO/'b#5'\$&' F' 4' . '#450/O\$G0/4'\$F' JD7^{f0} S8'
 ' JD7^{f0} S8' /' ZJD7^{f0} /' B<85%6B48<45'5850. ' JD7[⁸ #6' 5\$) 05CO/' <%'
 /#90G'9' 9#5#%454' F0G2' 1\$ \ 0=0/*' 5CO' 450/O\$40&095'=0'
 9\$; \$6%GO/'b#5'\$&' F' !' #BJD7^{f0} \ '5C' !' #BJD7^{f0} C#4' &5\$' <O0&
 ; /O=\$84% 458. 'O. *' \ C'9C' 9\$86. ; /\$=. 'O' #' 9#5#%6b0. ' F#9'0'
 9COG'9#6'4%&5CO'4'/\$850'5\$'9/4%45#66&O'4\$5#95'9'E1 - '9\$; \$6%GO/4'
 \ '5C'; \$50&5#66% ; \$6%G0F&B&_0'5CO/G#6' #&. 'G09C#&'9#6' ; /\$; 0/5'04t'
 CO&90'5C'4'5\$; '9'4'5CO'90&5/#6' \$<1095'=0'F'5C'4'458. %2'

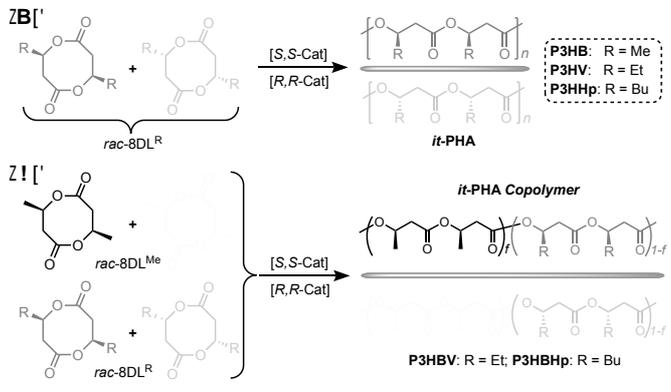


7. (2-Eh): COG'9#6'45/8958/04'\$F'5CO'G05#6'ZA'7#B<#40. '9C'/'#/'#90G'9'9#5#%454'
 F\$/'Z9\$[; \$6%GO/'b#5'\$&' F' !' #BJD7^{f0} ?

<%3D*23+(1\$+=35D33)#1+

c#90G'9' F' C#4' <O0&' 4C\$ \ &' 5\$' G0.' #50' 450/O\$40&095'=0'
 9\$\$. ''\$&B' &40/5'\$&' c g E' F' !' #BJD7^{f0} 5\$; /\$. 890' (BEN1S2^{OL}.
 g \ &) '5\$'5CO'9\$G; i050'O&#&5'\$40&095'='5%F'Z%3%[BF'F\$/'# . '5'\$&' F'
 Z939[BJD7^{f0} #&. 'Z939[BF' F\$/'# . '5'\$&' F' Z%3%[BJD7^{f0} #&. ' &\$'
 5/#&40450/'F'9#5'\$&'8; \$&'F866'G&\$G0'/9\$&=O/4'\$&'5CO'/O4865'&)' (β
 EN1S' \ #4' 4C\$ \ &'5\$'<O' #' G' 58/0' \$F' O&#&5'G0'9' ; \$6%Z%[BN1S,
 #&. ; \$%#Z9[BN1S, ZH9COG0' OB[2] 1\$ \ 0=0/*' 5CO' 450/O\$40&095'=0'
 9\$; \$6%GO/'b#5'\$&' F' !' #BJD7^{f0} \ '5C' !' #BJD7^{f0} Zc' d' @5' S8[⁵ '\$'
 ; /\$. 890'9/%45#66&O''45#95'9'E1 - '/#&. \$G'9\$; \$6%GO/4'ZH9COG0'
 O! [C#4' &5\$' <O0&'&=045') #50. *' &O5CO/' C#=#0' 5CO' 5CO/G#6' #&.'
 G09C#&'9#6' ; /\$; 0/5'04' \$F' 489C' E1 - '9\$; \$6%GO/4' <O0&'0' ; 6\$0. 2'
 (\$' 458. %' 5CO' 9\$; \$6%GO/'b#5'\$&' &' . 05#6'' 5CO' _&O5'94' #&.'
 450/O\$9\$&5'\$G09C#&'4G'F\$/'5CO' c g E' F' !' #BJD7^{f0} #4' \ 066' #4'5CO'
 450/O\$40&095'='5%'&'5CO' c g E' F' !' #BJD7⁸⁵ #&. !' #BJD7⁸⁵ \ C'9C'

C#=#0' #4\$' &5\$' <O0&'&=045') #50. '&'5CO' ; #45' G845' <O'8&. 0/45\$\$. '
 F'/452' -99\$/'&.)6% \ 0' ; /O40&5'CO/O'. 05#6'0. 'F&'&.)4' \$F'8'/458. 'O4'
 \$F'5CO' #<\$=O'F\$8/'45'66'8&# . /O440. 'F8&. #G0&5#6'5\$; '942'
 ''



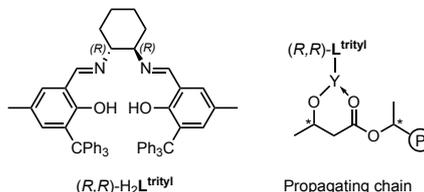
45. 9% Eh: COG'9#6'4%&5CO'4'\$F'E1 - 42'ZB[^{f0} H50/O\$40&095'=0' c g E' F' !' #BJD7^{f0}
 Zc' d' f' O' @5' S8[<%' /#90G'9'9#5#%454'5\$; /\$. 890'4\$5#95'9'E1 - 4#4' #'0'0'G' 58/0'
 \$F' O&#&5'G0'9'E1 - '9C#&42'Z1[^{f0} H50/O\$40&095'=0'9\$; \$6%GO/'b#5'\$&' F' !' #BJD7^{f0}
 \ '5C' !' #BJD7^{f0} Zc' d' @5' S8['5\$'4\$5#95'9'/#&. \$G'9\$; \$6%GO/4'EN1SU'Zc' d' @5' #&.'
 EN1S1; Zc' d' S8[2'

I'1%2'53+ (1\$+ 42%'#5#12'#+ ?%5. (1'39+ ; #'+ < J , + #; + !' ##
 K=A 2%# (CO' _&O5'94' \$F'5CO' c g E' F' !' #BJD7^{f0} &' : 1_M : 6_M <%' /#90G'9'
 F' 9\$G<'&O. ' \ '5C' O' 0a8'=#0&5' \$F' <O&b%6' #99\$C\$6' ZS&g 1[\ C'9C'
 9\$&=O/54' /' ; + '(O'5CO'4'6'66#G'. 0' ; /09#5#6%45'5\$'5CO' #6_ '\$. 'O'9#5#6%45'
 '&=#/0. !' #BJD7^{f0} , K&F, k' /#5'4'5' /\$G'50G ; /O#58/O'Z252' i MN' j : ['
 \ O/O' &=045') #50. ' Z (#<6'0' H0[2] 3 C'6'0' 5CO' 9\$&90&5/#5'\$&' F' !' #
 JD7^{f0} \ #4' 405'9\$&45#&5' ZK2XK' f [=#/'&)'5CO'9\$&90&5/#5'\$&' F' F'
 F/\$G'O2NN'G f '5\$'M2KK'G f '5\$'M2AP'G f '5\$'X2KK'G f '#66'4C\$ \ 0. '5CO'
 F'/458\$/ . 0' . 0&. 0&90' \$&' G&\$G0'/ 9\$&90&5/#5'\$&' \ '5C'&' 5C'4'
 9#5#6%45' 9\$&90&5/#5'\$&' /O'G0' Z>) 8/O' OB[2] (CO' 9\$//O4; &#. &#)'
 /#50' 9\$&45#&5' Z<6\$<4[*' \$<5#&O. ' F/\$G'5CO' 4&6; 0' \$F'5CO' <O45F'5'6'8&O#/
 6'&O'5\$'5CO' ; 6\$5' F'6&Z+ !' #BJD7^{f0} , K&F, k' /#5'4'5' /\$G'50G \ #4' O2NO'
 u' K2KOO' O2PL' u' K2KOO' M2AL' u' K2KOO' #&. ' X2OP' u' K2ON' G' &O2'
 10&90' 5CO' /#50' \$F' ; \$6%GO/'b#5'\$&' G#6' <O' \ /550&' #4' o. + !' #
 JD7^{f0} , s. (f' d' <6\$<4' !' #BJD7^{f0} , *' \ CO/O' <6\$<4' d' c ; +F, ' *' &' \ C'9C' <' ; '4'5CO'
 ; /\$; #) #5'\$&' /#50'9\$&45#&52' (\$' . 050/G'&O'5CO' /#50' \$/ . 0' /\$'9#5#6%45'
 F'9\$&90&5/#5'\$&' Z' [*' # . \$8<6'0'6\$) /#5'CG'9' ; 6\$5'Z>) 8/O' O ! [\$F'6& <6\$<4'
 =O/484'6&F; \ #4' F'5'5\$' #45/#) C5'6'8'0' Zc' M' d' K2[PL[\ '5C' #' 4&6; 0' \$F'
 O2KJ2' (C84'5CO' _&O5'9\$ / . 0' / \ '5C' /O4; 095'5\$'F, *) =O& <%'5CO'4&6\$; 0'
 \$F'9#2'0' *' \ #4' #4\$'F'45' \$/ . 0' / *' \ '5C' /#50'9\$&45#&5' <' . d' M'2N' 7vG\$6
 0'480' #4' . 050/G'&O. ' <%' 5CO' '850/90; 5' \$F' 5CO' /O) /O44'\$&' 6'&O2'
 (CO/O'F\$O' 5CO' \$=O/#66' /#50' #6' \ F\$/'5C'4' c g E' 9#&' <O' \ /550&' #40'
 o. + !' #BJD7^{f0} , s. 5' d' c ; + !' #BJD7^{f0} , F, 2'

(\$'44'45' 9\$G; 85#5'\$&'#6' &=045') #5'\$&' &85' 5CO' 450/O\$9\$&5'\$&
 G09C#&'4G' #&. 'G&\$G05#66'9' ; /\$; #) #5'\$&'Z<#40. '\$&'5CO' _&O5'94'
 \$F'5C'4' ; \$6%GO/'b#5'\$&'5CO' G&6O986#/'45/8958/0' \$F'9\$G ; i0' 'F' \ #4'
 . 050/G'&O. ' <' 4' &.)60' 9/%45#66' ! B/#% . 'FF/#5'\$&' #%4'42' (CO'
 45/8958/O' F0#58/04' #' F'=0B9\$\$/ . #2' . '45\$'50. ' 4a8#/'O1 ; %/#G' . '
) O\$G05'/% #/\$8&. '5CO' %55/'8G' 90&50' \ '5C' #66' F\$8/' . \$&\$/4' \$F' 5CO'
 505/# . 0&5#50'4#69%'&)' #&. ' \$&O'4'6'66#G'. 0' /\$8 ; <\$&. 0. '5\$'5CO'
 G05#6'90&50'Z>) 8/O'HO[2] (CO' <86_%/'5/'566') /\$8; 4' #5'5CO'NB; \$4'5'\$&4'
 \$F' 5CO' 4#69%'&)' #&. ' F/#G0 \ \$/ _ /O&. 0/0. ' 5CO' G05#6' 90&50' 5\$5'
 9/\$ \ 0. '5\$' (1 > 9\$5\$/. ''\$&t'CO&90'8&6'0'5CO'9\$G ; i0' 04' \ '5C'
 6044' <86_%'48<45'580&54' A'9\$G ; i0' 'F'Z#&. '54'7#G'1'4' <#40'Z (1 > ['
 F/O0' #44'\$9\$&F'/GO. ' <%' h f c'4; 095'/#'F'5CO'9\$G ; i0' 2' (CO'. '45#&90'
 \$F' N2OPL' w' <O5' 100&' AZO[#&. ' H'ZM[/O40G<i04' AoH'] xB<\$&. '
 . '45#&904'48)) 045'&)' #&' #; ; /O9' #<6'0'&50/'95'\$&'&'5CO'4\$6'. '45#502'
 (CO'. '45#&90' \$F' M2P^J' w' <O5' 100&' AZO[#&. ' 1ZL^L' \$&' H'ZM[] +=4'

N2]]^' w'f\$' AZO[wv1Z^'^. '45#&90, ' #5'5CO'8; ; 0/' O&. ' \$f' 9\$=#0&5' Ao1' <\$&. 4''&. '9#504' #) \$45'9'5C/O0B90&50/O. 'H'... 1 oA''&50/#95'\$&' '\C'9C'9#&'<0'F8/5CO/'. \$98G0&50. ''&'5CO'9&5/#950. '<\$&. '#&)'iO'f' 5CO' AZO[ohZn[oH'ZM[' ZOKP2M^AZOM['j' =4' H'Z[ohZn[oAZO[' OMX2L^AZOM[j[2' - 66' #5\$G4' #/0'f\$9#50. ''&'\$&0'; #&0' \ '5C'5\$'4'&'#&)'iO' AZO[ohZn[oH'ZM[B'1Z^L[' \$f' N2OMj'' 9\$G; 605'&)' 5CO' f\$'G#5'\$&' \$f' #) \$45'9#66'f840. 'f\$8/BG0G<0/0. ' /'&)' 2^OP.'

ZB['



ZI['

L'D''EHzB['HOG'%) #'5CG'9'; 6\$54'f'f/458\$/ . 0/'_&05'94'f'f'z+' #BJD7'f'0; #BJD7'f'0; ['=0/484'5'G'0' #5'. 'f'f'0/0&5'9#5#645'f'9\$&90&5/#5'\$&40'+' #BJD7'f'0; 'd'K2XK' f t'+f; 'k' d' O2NN' Zy['M2KK' Z z['M2^P' Z[' ' #&. ' X2KK' Z[]' G f ''&' : 1m : 6m' #5' /252[2' Z I [' D\$8<0'%) #'5CG'9'; 6\$5'f'f'<4'&'f; f\$' /' c g E' \$f' !' #BJD7'f'0?'

''''S#40. ' \$&' 5C'4+ !B/#%' 9/45#6' 45/8958/0'' \ 0'; 0/f\$'G/0. ' . 0&4'5%' f8&95'\$'5CO\$/%'ZD> (['9#6986#5'\$&'4' \$&'5CO' c g E' \$f' !' #BJD7'f'0; <%' 9#5#645' Z%3%BF* ; /\$<'&)' 5CO' 450/0\$9\$&5/\$6' G09C#&'4G' /04; \$&'4'<0' f\$' /' 5CO' \$<40/'=0. ' 0440&5' #66%' ; 0/f'095' '4\$40&095'='5%' #9C'0=0. '<' F2' : \$&'4. 0/'&)' 5C'5'5CO' 409\$&. ' 9C'/'#6' 90&50/' \$f' 5CO' 6#45' '840/50. ' G\$&\$G0/' '4'6' 06%' 5\$ \$f' /' # \ #%' f' / \$' G' 5CO' 9#5#645' #95'='0' 90&50/' 5\$' #f'095'5CO' /048654' #&. ') '=0&'5CO' 9\$&f'G/5'\$&'#6' 9\$G; 60' '5%' \$f'5CO'4%450G*5CO'; /\$; #)'#5'&)' 9C#&' \ #4' G\$. 060. '#4' og : 1Z : 1N[: 1M : Zd g [g : 1Z : 1N[m' #4' 4C\$ \ '&'&' : C#5' M' Z5CO' /045' \$f' 5CO' 9C#&' E' \ #4' G\$. 060. '<' : 1N[2' (CO' /0#95'='0' 4%450G' \ 0' 9\$&'4. 0/0. ' CO' /0' 4C\$ \ 4' (=!66; 6; 6; 5; 6 / (+; ?; # = !' ;' @Q' Z# ['5CO' 9#5#645' Z%3%BF' <0#/'&)' #' 9C'/'#6' 4#66' 6') #&. t' Z< [' 5CO' ; /\$; #)'#5'&)' 9C#&' \ '5C' \$&0' 9C'/'#6' 90&50/' #&'<0&0. ' CO' /0' #4' 9B9C#&' \$f' /' %69C#&'&' . 0; 0&. '&)' \$&'5CO'9\$&f') 8/'#5'\$&' \$f'5CO'6#45'840/50. ' G\$&\$G0/t' #&. ' Z9['5CO' G\$&\$G0' * Z%3%BJD7'f'0; /' Z939[BJD7'f'0; 3'0'5CO&'f\$9840. ' \$&' 8&. 0/45#&. '&)' C\$ \ ' #66'5CO40'9C'/'#5'5%' 060G0&54' \ \$ / ' 5\$) 05CO' /5\$' . 050/G' &0'5CO'450/0\$9C0G'9#6' \$859\$G0' \$f'5CO'; %6%G0' /b#5'\$&'2' >' /45' 5CO' 40&095'='5%' <05' 00&' Z%3%BJD7'f'0; #&. ' Z939[BJD7'f'0; 5C/8) C' '850/#95'\$&' \ '5C' Z%3%BF' \ #4'0' #G'&0. 2' ('5C'4'0&. ' *5CO' 9C'/'#6'5%' \$f'5CO'; /\$; #)'#5'&)' 9C#&' \ #4') &\$ /0. '<' G\$. 066'&' 5CO'

)/\$ \ &)' 9C#&' \ '5C'5CO' #9C'/'#6' og : 1M : 1M : Zd g [g : 1Z : 1N[m] / \$8; *' #&. '5CO'5' / #&'4'5'\$&' 45#504' Z (H4 [\ 0/0'f\$9#50. 'f\$' /5CO'f' /45'450; ' \$f'5CO' /0#95'\$&'9\$ /04; \$&. '&)' 5\$'5CO' G\$&\$G0' /'840/5'\$&' 85\$'5CO' Aog9C#&' <\$&. 2' 3'0' f\$8&. '&)' G0#&'&)' f86' V' <<4' f' /00' 0&0/) %' . f'f'0/0&90' +) Z] A' [d' K2O' _9#6sG\$6; <05' 00&'5CO' Z%3%BJD7'f'0; #&. ' Z939[BJD7'f'0; (H4' *'&. '9#5'&)' 5C'5'5CO' 9C'/'#6'5%' \$f'5CO'; /\$; #)'#5'&)' 9C#&' 4C\$86. '<0'&'#&=0. '&' 40&095'='5%' \$f'5CO' 9C'/'#6' G\$&\$G0' /' <' 9C'/'#6' Z%3%BF'2'

7. (*2+ Mh+ (CO' 45/8958/04' \$f' Z%3% [B1 m A'2'2'+ 6') #&. ' \$f' 9\$G; 60' Z%3%BF' #&. ' ; /\$; #)'#5'&)' 9C#&' G\$. 060. 'f\$' /5CO' D> ('9#6986#5'\$&'42'

h0' 5' \ 0'&'=045') #50. '5CO' /0#5'='0' 45#<'6'5%' \$f' Z%3%BF' <0#/'&)' #&' 9B9C#&' \$f' /' #&' %69C#&' &'5C' C') C5' ; \$44' <60' '&50/#95'\$&'4' <05' 00&' 5CO' 9#5#645' #&. ' 5CO' 9C#&' &' O&. *' #&. ' #5' 5CO' 4#G0' 5'G0' 5'G' 8&. 0/45#&. '5CO' 45#<'6'5%' \$f'5CO' \$=0' / #66' /0#95'\$&' ; /\$. 895' \$f'5CO' c g E'2' (CO' /048654' 4C\$ \ 0. '5C'5'5CO' Z%3%BF [Z9B9C#&' &' [4%450G' "4' f#=#/0. ' <' N2O' _9#6sG\$6' / 0#5'='0' 5\$' 5CO' Z%3%BF [Z%3%B9C#&' &' ['4' 4%450G' *' 48) 045'&)' #'; /0f'0/0&90' f\$' /' 5CO' f\$' / G#5'\$&' \$f'5CO' /0#95'\$&' ; /\$. 895' \$f' Z939[BJD7'f'0; G\$&\$G0' / ' \ '5C'5CO' Z%3%BF' 9#5#6452' (CO' C') CO' / 0&0/) %' \$f'5CO' Z%3%BF [Z%3%B9C#&' &' [4%450G' "4' #49/' <0. '5\$' 8&f#=#/ #<0' 450/'9' '&50/#95'\$&'4' <05' 00&'5CO'; CO&6' /'&)' 4' \$&'5CO'6') #&. '#&. '5CO' G05C'66') /\$8; 4' \$&' 5CO') /\$ \ &)' 9C#&' &' Z>) 8/0' M[' \ C'9C' #64\$' 48) 0454' 5CO' *G; \$/5#&90' \$f' 5' /5%6B48<45'5850. ') /\$8; ' \$&' 5CO' A'2'2'+ 6') #&. 'f\$' /5CO' C') C' "4\$40&095'='5%' \$f'5CO' 9#5#6452' ''''>'B%' \ 0'458. '0. '5CO' &'f80&90' \$f'5CO' 9C'/'#6'5%' \$f'5CO' 9C#&' B0&. ' \$&' 5CO' 40&095'='5%' \$f' 5CO' G\$&\$G0' / f\$' /' 5CO' f#=#/0. ' Z%3%BF [Z9B9C#&' &' [4%450G' *' <' 9\$G; #/'&)' 5CO' (H4' f\$' /' 5CO' '&40/5'\$&' \$f' Z%3%BF' #&. ' Z939[BJD7'f'0; '&5\$' 5CO' Aog9C#&' <\$&. ' Z>) 8/0' N[2' (CO' <045' 9\$&f' / G#5'\$&' \$f' /' 5CO' G\$&\$G0' /' 9\$G /' '&5\$' &' #&. ' "840/5'\$&' 450; 4' \ '5C' 5CO' + - 1* . * - 1* . , %55' /'8G' 4%450G'4' '4' #' 40=0&B9\$\$. '2' 0&=#/ \$&'G0&5' f\$' /' 5CO' G05#6' 5C'5' <\$&. 4' 5\$' 5CO' 505/#. 0&5#50+ A'2'2'+ 6') #&. *5CO' G\$&\$G0' /' #&. '5CO'; %6%G0' /9C#&' &' <' #&' <'&' <'&. '&)' \$f'5CO' 5 \ \$' \$' %) 0&' #5\$G42' (CO' #650/ &'#5'0' 4' B9\$\$. '2' G05#6' 0&=#/ \$&'G0&5' \ '5C'5CO'; %6%G0' /9C#&' &' <'&. '&)' <' %' \$&'6' \$&0' \$' %) 0&' #5\$G' 60# . 4' 5\$' <\$5C' 9\$G /' '' \$' 4; 09'04' #&. ' (H') 0\$G05' /04' C') CO' /' <' N2KBN2L' _9#6sG\$6' \$&' #=#/0') 0' 9\$&'4' 450&55% \ '5C' 5CO' /048654' /0; /\$50. '<' <' c'0') 0' / 052' #62' OJ' 2' f \$ /0\$=0' *' #G\$&) #66' 5CO' 9\$&f' / G#5'\$&'4'0' ; 6\$ /0. *5CO' \$&0'. '4; 6#%&)' 5CO' JD7'f'0; (!' /' /+5\$ \$&0' - 1' #5\$G' \$f'5CO+ A'2'2'+ 6') #&. '4'; /0f'0/0. 2' 14'&)' 5CO' G\$ /0' f#=#/0. ' Z%3%BF [Z9B9C#&' &' [#4' 5CO' #95'='0' 4; 09'04' *5CO' 0&0/) %' <#/' /0' f\$' /' '&40/5'\$&' \$f' Z939[BJD7'f'0; Z00ZJ' _9#6sG\$6' \ 0' /'5C' #&' 5C'5'f\$' /5CO' '&40/5'\$&' \$f' Z%3%BJD7'f'0; Z0N2[] _9#6sG\$6' [*'&. '9#5'&)' 5C'5' 40&095'='5%' 4' . 050/G'&0. '<' <' 5CO' '&50/#95'\$&' <05' 00&' 5CO' 9C'/'#6' 9C#&' &' O&. '#&. '5CO' G\$&\$G0/2' (CO' _'805'9' '&40/5'\$&' ; /\$. 8954' #/0' 8\$9#50. ' #5') 2X' #&. ' 002L' _9#6sG\$6' f\$' / Z939[BJD7'f'0; #&. ' Z%3%BJD7'f'0; /04; 095'='0%2' (CO' ; /0f'0/0&90' f\$' /' 5CO' '&40/5'\$&' \$f' Z939[BJD7'f'0; \$&' Z%3%BF [Z9B9C#&' &' [4%450G' "4' #49/' <0. ' 5\$' 5CO' 450/'9' '&50/#95'\$&' <05' 00&'5CO' : 1M #&. ' : 1'9# / <\$&'4' \$&'5CO' g' #&. ' : #5\$G4' &'#&=0. ' '&'5CO' : og <\$&. 'f\$' / G'&)' *' \ C'9C' / #0' \$&'5CO' 4#G0'4' . 0' f\$' / Z%3%BF [Z939[BJD7'f'0; '&40/5'\$&' Z>) 8/0' N[2' f \$ /0\$=0' *' 5CO' _'805'9' #66' f#=#/0. ' /'&)' B \$; 0& &)' /0#95'\$&' \$f' Z%3%BF [Z9B9C#&' &' ['5C' Z939[BJD7'f'0; Z<' M2O' _9#6sG\$6' \$=0' /5C'5' \ '5C' Z%3%BJD7'f'0; [60# . 4' 5\$' 5CO' f#=#/0. ' 9B9C#&' B 0&. '#' #&'2' (CO40' /048654'0' ; 6#&' 5CO' 0&#&'5'40&095'='5%' '&'5CO' c g E' \$f' !' #BJD7'f'0; <' Z%3%BF f\$' / G' ; %6%Z939[BJD7'f'0; \$f' / E' Z9[BN1 S, 2''

L'D%+Mh+g;5'G'bo.)0\$G05/'04' \$F' Z%3%[BFIZ9B9C#&[' #&.' Z%3%[BFIZ%9B9C#&[' #&.' %CO'/ /0#5'=0'f/00'0&0/) %=#804'Z_9#sG\$6['&'D : f 2'

L'D%+Nhg;5'G'bo.)0\$G05/'04' \$F'5CO' G&\$G0/'&40/5'\$&'5/#&4'5'\$&'45#5042+

(CO' 5\ \$' 40; #/#50' 0&0/) %' ; /F'604' Z>") 8/0' X[' 4C\$ \ ' #' _&05'9' ; /0f0/0&90'f\$/'5CO''&40/5'\$&'F' #Z939[BJD7^{f0}'\$&' #&' 9B9C#&' #&.' 'F' #' Z%3%[BJD7^{f0}'\$&' #&' %B9C#&'&'&.' '9#5'&) '5C#5*' _&05'9#66%*'5'4'5CO' 9C'/#6'5%'F'5CO'9C#&'&B0&.' '5C#5'40#0954'5CO'9C'/#6'5%'F'5CO'G&\$G0/' '&'5CO''&40/5'\$&'450; 'Z'202'5CO' 9B9C#&'&'40#0954'Z939[BJD7^{f0}'#&.' '5CO' %B9C#&'&' 40#0954' Z%3%[BJD7^{f0}]2' 1\$ \ 0=0/'* \ 0' #/0' .0#6'&)' \ '5C' 0a8'6'</'8G' /0#95'\$&4*' #&.'* 5CO/G\$. %&#G'9#66%*' 5CO' 9B9C#&'&' '4' #8 \ #%4' ; /0f0//0 . '<'Z%3%[BF2' - 4' #/04865*'Z939[BJD7^{f0}'&40/5'\$&'\$&' 5CO' Z%3%[BF9B9C#&'&' '4' f#=#/0 . ' #<\$85' N2K' _9#sG\$6' F/\$G' <\$5C' #' 5CO/G\$. %&#G'9' #&.' #' _&05'9' ; 0/4 ; 095'=0' \$=0/' 5CO' '&40/5'\$&' \$F' Z%3%[BJD7^{f0}' : \$&4 . 0/'&)' 5CO' 8&f#=#/ #<0' 5CO/G\$. %&#G'94' F\$/' 5CO' c g E' \$F' G0 . "8GB4'b0 . '9%96'9' 0450/4**01.'5C'4' } } A' \$F' #<\$85' N' _9#sG\$6'4''&'6'&0' \ '5C'5CO' #6G\$45'9\$G ; 050'&\$B/0#95'\$&' \$F'Z%3%[B JD7^{f0}' \ '5C'Z%3%[BF'9#5#6%452'

3 CO&Z%3%[BJD7^{f0}'&40/5'\$&'\$&'5CO'Z%3%[BF'\$998/4*'5CO'%B9C#&'&' F\$/G4' <85'5CO' /04865'&)' %B9C#&'&'4' #6G\$45' N' _9#sG\$6'6044' 45#<0' 5C#&'5CO'45#/'5'&) '9B9C#&'&'Z } } A' p' N2K' _9#sG\$6['4\$'5C#5'5CO' /0=0/40' /0#95'\$&' \$998/42' - 4' #'9\$&40a80&90*'5CO'45#/'5'&)' 9B9C#&'&' /0f\$/G4' #&.' '5CO'40#095'\$&' \$F' #&'5CO' /Z939[BJD7^{f0}'4' #) #&' f#=#/0 . 2' #&450# . * 'F'5CO' ; \$6%G0/'b#5'\$&' ; /\$900 . 4*'5CO&'5CO' '&40/5'\$&' \$F'Z%3%[BJD7^{f0}' '4' _&05'9#66%' ; /0f0//0 . ** <85'5CO' . /095' ; /\$. 895' \$F'5CO' '&40/5'\$&' '4' 9#898#50 . '5\$' <0' \$&6%' '4\$0&0/' 05'9' \ '5C'5CO' (H' #&.' '5CO' \$=0/#66' F\$/G#5'\$&' \$F' #&' &0 \ ' %B9C#&'&'4'5CO/G\$. %&#G'9#66%' . 4f#=#/0 . '<' 02K' _9#sG\$6' \ '5C' /04 ; 095'5\$'5CO' ; /0=\$84' %B9C#&'&' #&.' '<' X2K' _9#sG\$6' \ '5C' /04 ; 095'5\$'5CO'45#/'5'&)' 9B9C#&'&'2' - 4' #'9\$&40a80&90*' 5CO' /0=0/40' /0#95'\$&'4' #/0' #) #&' f#=#/0 . ' #&.' '5CO' ; \$6%G0/'b#5'\$&' ; /\$900 . 4' \$&6%' \ CO&' '&40/5'\$&' \$F' Z939[BJD7^{f0}' \$998/4' \$&' #&' 9B 9C#&'&' \ '5C' F\$/G#5'\$&' \$F' #&' &0 \ ' 9B9C#&'&'2' H'&90' Z939[BJD7^{f0}' '4' #6 \ #%4' 40#0950 . ' F\$/' '&40/5'\$&' \ '5C' Z%3%[BF'5C'4' 450/0\$40#095'=0' c g E' ; /\$900 . 4' 5C(\$8)C' #&' 0&#&'5'\$G\$/ ; C'9B'4'50' 9\$&'5'\$&' G09C#&'4G2'

L'D%+FH' : #89#50 . '0&0/) %' ; /F'604' \$F'&0/G0 . "504' #& . '5/#&4'5'\$&'45#504'f\$/'G&\$G0/'&40/5'\$&'&5'5CO'f#=#/0 . Z%3%[BFIZ9B9C#&[' #95'=0'4 ; 09'04'='4'5CO' . '4f#=#/0 . ' Z%3%[BFIZ%9B9C#&['4 ; 09'04' #&'&)'5CO' /0#95'\$&'9\$G/ . 'Ƕ'> /00'0&0/) %'=#804'Z_9#sG\$6[' #/0'&' : 1 m : 6m2

42%#3%*526%< J , #;#A#1%#B*0-#4D)322D2%\$#!"##K=A<+
 0<+P+Q2R! DSH (\$;/\$<0'5CO')O&O/#5%\$F5CO'9COG'9#5'4%&5CO4'4'\$F'
 E1-4'=#'5CO'450/0\$40i095'=0'c g E'\$F!'##JD7'0'##. 'G\$. 8i#50'5CO'
 ;/\$;0'5'04'\$F'E1-4' '0'&=045')#50. '5'5'\$6\$&0)0'/'#%6B48<45'5850. '
 G\$&\$G0/4!'##JD7'0'Zc'd'@5'S8[*'\C'9C'\0/0';/0;#0. 'F\$6\$'\&')
 5CO';/\$90. 8/04'\$F'5CO';/0;#/#5'\$&'F!'##JD7'0'2'0^'. -5'5CO'\$85405'
 5CO'c g E'\$F!'##JD7'0'5'4';/0F/GO. '84&)'%55/'8G'9#5#6%454'EoF+
 Z(#<i0'HM[*'#9C'0=&)'C')C'5\$&0#/'a8#&5'5#5'=0'4\$5#95'9'5%'5C', e'
 =#804'/#&)'&)'F/\$G'K2]K'5\$'K2]P2': \$G;60' 'E'5'5CO'4#0&6')#&'.
 <0#/'&')5CO'N'LB. 'B(6/6<85%& 48<45'580&54' 'MK'. ';\$6%GO/'b0. 'OKK'
 0a8'=#0&54'\$F!'##JD7'0'5\$'JP q' #&. ']J q'9\$&=0/4'\$&'&'8'OMK' #&'.
 N^K'G'&'04;095'=06%' \C'9C' \#4'G89C'4&5'0/5C#&'5CO'c g E'\$F'
 !'##JD7'0'2' (CO'G\$0986#/'\0')C5,\$F'5CO'/04865&)'EN1U''9/0#40. '
 \5C'&'9/0#4'&)'G\$&\$G0/'9\$&=0/4'\$&' \C'6'0'00; &)'5CO'. '4;0/4'5%'
 /0#5'=06%'6\$'\Z8'd'020]'5\$'020^' #&. '5CO'9#698#50. '5'5'5'\$&'
 0F'9'089%'C')C'Z/\$G'OMJ q'5\$'OKX' q'*/8&4'0' #&. 'M*' (#<60'HM[2'
 S#40. '\$&'0'1' #&. 'ON: 'h f c' #&#%4'4^L'0'P9'MO,'Z')8/0'HX[*'5CO'EN1U'
 ;/\$. 890. '<'9\$G;60' 'E'0' C'<'50. 'C')C'4\$5#95'9'5%'5C', e' i'K2]K1
 K2]0' #&. '5'5, '5'/'#'. 'iJL q' *'<'4\$G0' C#5'6\$'0/5C#&'5C#5'\$F'EN1S'
 <'6'9\$G;60' 'E'2'1\$ \0=0'^' \5C'5C'4'0=0'6'\$F'4\$5#95'9'5%'5CO'/04865&)'
 EN1U'4C\$ \0. ' &'&_G' \$&'5CO'. 'FF0/0&5'6' 49#&&')9\$6\$/'G05'7'
 ZDH: ['98/0' \5C' #9\$5&6') #&. 'CO#5&)' /#50'\$F'4'1\$ \#4'0'j : sG'&2'
 h0'5' \0' &=045')#50. ' ;\$4'<i0' OF0954' \$F'5CO'4#0&6') #&'.
 F/#G0' _4' 6'6#(1/'#+'+(6/'#+' #&. '+@5'5'6(1@&'5CO'!'##JD7'0'5'
 ;\$6%GO/'b#5'\$&' #95'=#' #&. '450/0\$40i095'=#'5%2' : \$G;60' 'M+ \5C'5CO'
 0i095'&'5C'./# \&)'>'#5\$G4'48<45'5850. '#5'5CO'LB; \$4'5'\$&'4'\$F'5CO'
 4#09%'6') #&. ' ;/\$. 890. 'EN1U' \5C', e' #&. '+5'5, '=#804'4'8'&'N'
 (#<i0'HM[4'G'6#/'5\$'5C\$40'<'E'2' (8'&'&)'5\$'5CO'450/9';/058/<#5'\$&'
 \$F'5CO'9#5#6%45'5CO'<8i'0/98G%6B48<45'5850. '9\$G;60' 'N';/\$. 890. '
 '4\$5#95'9'EN1U'G\$0/'#; . '6%' #&. '#4\$' #9C'0=0. '&'5'90#<6%'C')CO/
 '4\$5#95'9'5%' \5C', e' d' K2] ^' #&. '+5'5, 'd']L q' [Z/8&'X' (#<i0'HM'
 >)'8/0'HX[2'h\$ \5CO'/04865&)'EN1U''4'40G'B9/45#6'80'0' C'<'5'&)'
 #&'&e'\$F'OKJ'r : #&. '&)'\$F'oOJ'r : *' \C'6'0'5CO'7&'9#&'<0'G\$. 8#50. '
 <'6%' #&. k845&)'5CO'+!'##JD7'0'5',k+s+N,k' /#5'\$F/\$G'OKKs0'5\$'XKk0'Z/8&4'
 X1^* (#<i0'HM[2'H \5C'&)'5\$'9\$G;60' 'F' \5C'0=0&'<8i'0/5'5'6%'
)/\$8;4'48<45'5850. '#5'5CO'NB; \$4'5'\$&'4'\$F'5CO'4#69%'6') #&. *' \C'9C'
 0' C'<'50. '0'5'0/GO6%'C')C' #95'=#' #&. '4\$40i095'=#'5%5\$ \#/. 4'!'##
 JD7'0'1'0'60. '5\$'48) '4C'!'##JD7'0'5';\$6%GO/'b#5'\$&'Z/8&'P' (#<i0'HM[*'
 C')C5&)'5CO' 'G;/\$5#&90' \$F'5CO'9#5#6%45sG\$&\$G0/'450/9'
 G#59C'0'2' (CO'840'\$F'5CO'9\$'/04; \$&. '&)'7#'G' \5C' #6#')0/'G05#6'
 90&50'/'G;/\$=0. '5CO' #95'=#'5%4\$G0' C#5'<85'&'5\$5CO'4\$5#95'9'5%'Z, e'
 d'K2]X'+5'5, 'd']N q' [2'0^.'7#456%'5CO'0#9C'/#6'4#6; C6<#40. '9\$G;60'
 T'4C\$ \0. '5CO' C'CO45' #95'=#'5%4'9#5#6%45'40/04'<85'5'0' C'<'50. '
 5CO'6\$ \045'4\$40i095'=#'5% \5C', e' i'K2]J' #&. '+5'5, 'i'PL q'Z/8&'J'
 (#<i0'HM[#&. '%06. 0. #&' #G\$/' ;C\$84'EN1U2+
 -4'N'4C\$ \0. '<'5C' C')C' #95'=#' #&. '4\$40i095'=#'5%'F\$'!'##JD7'0'5'
 '5' \#4'5CO&'9C\$40&'F\$/'5CO'c g E'\$F!'##JD7'0'5\$';/\$. 890'4\$5#95'9'
 ;\$6%ZNBc%./\$ \#CO;5#&\$#50[ZEN11; [2' \|&. 00. *' EN11; ; \5C' C')C'
 G\$0986#/'\0')C5'Z7&'d']2N' I'OKX'_D#''B'd'020] I02MX[#&. 'C')C'
 '4\$5#95'9'5%'Z, e' d'K2]P'+5'5, 'd']No]X q' *'>)'8/0'HJ[\#4'<'5#&'80. '
 Z/8&4' OoN' (#<i0'HN[2' -4' '&'5CO'9#40' \$F'!'##JD7'0'5'5CO'5'5'6B
 48<45'5850. 'F'0' C'<'50. '\$&6%'G#)'' #95'=#'5%5\$ \#/. 4'!'##JD7'0'5'
 ;\$6%GO/'b#5'\$&'2'7#'G';\$6%GO/'b0. 'LK'0a8'=#0&54'\$F'!'##JD7'0'5\$'
 LJ q'9\$&=0/4'\$&' #50/'MK' C';/\$. 89&)' EN11; ; \5C'4\$5#95'9'5%' , e'
 '\$F'K2]P' #&. '+5'5, '\$F']^ q'<'85'6\$ \G\$0986#/'\0')C5'Z7&'d' \2^P'_D#''
 B'd'020]'*/8&'L' *' (#<i0'HN[2' (CO'840'\$F'9C'/#6'T'</\$8)C5' #<'<85'5CO'
 F#45045';\$6%GO/'b#5'\$&'<'85'5CO'/04865&)' EN11; ;C#'. '5CO'\$ \045', e'
 '\$F'K2]JL' #&. '+5'5, '\$F'PX q'Z/8&' ^* (#<i0'HN[2'
 (\$) #&'&'&4')C5' '&'5'5CO'9\$&5'6' \$F'5CO'c g E'\$F'!'##JD7'0'5'5CO'
 EN1U'4#G;604';/\$. 890. '#5'. 'FF0/0&5'5'G04' #&. '+!'##JD7'0'5',s+N,
 /#5'4' \0/0' #&#%b0. '<'6%' G#5/'B#44'450. '6#40/
 .04\$/'5'\$&s'&'b#5'\$&'5'G0B\$FB6')C5' G#44'4;095/\$49\$; %'Z f -7DIB

(g>' f H[2' 3 CO&' #' 6\$ '\ /#5'\$ \$F' MKs0' \#4' 840. '\5C' #' 6\$&)'0/
 /0#95'\$&'5'G0'ZL'G'&[*'5CO'fH'4;095/#'4C\$ \0. '4\$G0'
 5/#&40450/'F'9#5'\$&'0#95'\$&'4'0=' .0&90. '<'5CO' #; ;0#/#&904'\$F'
 G\$0986#/'&'&';0#_4' \5C'5CO'4; #9&)'<05 \00&'5CO'&0')C<\$/&)'
 ;0#_4'<0&)'5C#5'\$F'5CO' C#6F'G\$6#/'G#44'\$F'5CO'/0;0#5'8&'5'Z')8/0'
 H00[2'3 CO&'5CO';\$6%G0/'b#5'\$&' \#4'a80&9CO. '#50/0'/'M'G'&'Z#5'
 \C'9C'5'G0'5CO'9\$&=0/4'\$&' \#4'LL q' /'JP q' [*'54' f H'4;095/8G'
 .4;6#%0. '0'9&84=0' G\$0986#/' '\$&' ;0#_4' \5C'5CO'4; #9&)'
 <05 \00&'5CO'&0')C<\$/&)' ;0#_4'<0&)'5C#5'\$F'!'##JD7'0'5'Z')8/04'
 H]oOK[2' (CO40'/048654' &' .9#50'5C#5'5#&40450/'F'9#5'\$&' \$998/0. '
 \CO&'5CO'/0#95'\$&'0#9CO. 'F866'9\$&=0/4'\$&' #&. '5C84'9#&'<0'4C85'
 . \&'<' /0. 89&)'5CO'5'G0' \$F'5CO'9#5#6%45' #G8&5' '&'FOO. 2'>\$/
 0' #G;60' \CO&' +!'##JD7'0'5',s+N, 'd' OKK' &'5' #&40450/'F'9#5'\$&' \#4'
 \$<40/=0. '0=0&' #50/'5CO'F866'9\$&=0/4'\$&' \$F'!'##JD7'0'5'Z')8/0'HOM[2'
 (CO'&50/90;5'\$F'5CO'6'&0#/' ;6\$5'\$F'5sC'=#804'Z% [D+;5CO'&8G<0/'\$F'
 !'##JD7'0'5'/0;0#5'8&'54'Z' [*'OKJ' *'&. '9#50. '5C#5'0#9C'EN1U'9C#&'&
 9#/'04' S&gs1' #4'9C#&'& O&. 4' + f oa. 'd' OKJ'ZS&gs1['•'MN'Zh#'[
)sG\$6; \C'9C'9#&'<0'F8/5CO'/9\$&'G0. '<'5CO'0'1' h f c'4;095/8G'
 \$F'EN1U'Z')8/0'HOX[2'H'G' #6#/'6%'5CO'c g E'\$F'!'##JD7'0'5'5CO'
 EN11; ; \5C' S&gs1' #4'9C#&'& O&. 4' *'9\$&'G0. '<'6%'54' f H' #&. '0'1'
 h f c'4;095/#'Z')8/04' HON' #&. 'HOL[2' g=0/#66'5CO40'/048654' #/0'
 9\$&'4'450&5' \5C'5CO'9\$\$. '&'#5'\$&'&40/5'\$&' G09C#&'4G';/\$; \$40. '
 F\$/'5CO'c g E'\$F'!'##JD7'0'5'0'1'
 '++++, UB3; #9+7#8#* -9'#: (2#1+#;+!'##K=A?%; (1\$;!'##K=A<+
 0<+P+Q2R! DSH (CO'9\$; \$6%GO/'b#5'\$&' \$F'!'##JD7'0'5'5CO'!'##JD7'0'5'
 \#4'9#/'0. '\$85'84&)'N'8&. 0/'. 'FF0/0&5'9\$&. '5\$&'4'Z'(#<i0'0[2' -4' #'
 9\$&5'6%'C\$G\$; \$6%GO/'b#5'\$&' \$F'!'##JD7'0'5' \#4'0' #G'&0. '\5C'N'
 ZK2L'G\$6 q' #&. 'K2ML'G\$6' q'6\$#'. &)'[#5'/252'Z/8&'4'0' #&. 'M' (#<i0'0[*'
 #9C'0=&)'OKK q' #&. ']J q'!'##JD7'0'5'9\$&=0/4'\$&'&'MK' #&. 'NK'G'&'
 5\$)'=0' (BEN1S'Z'5'5, 'd']X q' [\5C'7&'d' LM2P' #&. 'OMO'_)sG\$6'
 &#/'\ \$'. '4;0/4'5%'8'd'02OX' #&. '02MX' #&. '&e'd'OL^' #&. 'OLP'j : *'
 /04;095'=06%2^0L' (CO'9\$; \$6%GO/'b#5'\$&' \$F'!'##JD7'0'5'5CO'!'##JD7'0'5'
 \#4'5CO&'9\$&. 8950. '\5C'. 'FF0/0&5'!'##JD7'0'5'!'##JD7'0'5'5\$'4' #5'
 F'0. ' +!'##JD7'0'5' *'!'##JD7'0'5',s+N, 'd' MKK2' D09/0#4&)'5CO'!'##
 JD7'0'5'!'##JD7'0'5'F00. '/#5'\$F/\$G'OKs0'5\$'Os0'4')&'F'9#&56%0&C#&90. '
 !'##JD7'0'5'9\$;/\$; #5'\$&'ZG\$6 q' [\$F'5CO'/04865&)'EN1SU'F/\$G']2K q'
 5\$'XM20 q'Z/8&'4'NoP' (#<i0'0[*' \C'6'0'5CO'&'e' \$F'EN1SU'. '09/0#40. '
 F/\$G'OX]'5\$'OMJ'j : '\5C'&'9/0#4'&'5CO'!'##JD7'0'5'&'9\$; /#5'\$&'
 F/\$G']2K q'5\$'MN2] q' #&. '&'&'&' #4' \$<40=0. '\CO&'5CO'!'##JD7'0'5'
 '\$F'EN1SU' \C'6'0'00; &)'5CO'9#5#6%45'6\$#'. &)'9\$&45#&'ZK2ML'
 G\$6 q' [*'5CO' /0#95'\$&'9\$&. '5\$&'4' Z9G\$&\$G0/'FOO. '/#5'\$'5'G0'
 9\$&=0/4'\$&' \0/0'=#/0. '5\$';/\$. 890' EN1SU' \5C'!'##JD7'0'5'
 '&'9\$;/\$; #5'\$&'4'F/\$G'N2]'5\$'NP2^ q' 7&'F/\$G'LN2M'5\$']K2P_]sG\$6'
 #&. 'B'F/\$G'020^5\$'02MX'Z/8&'4'JoOP' (#<i0'0' #&. '>)'8/04'HO^oOP[2'
 (\$'F8/5CO'&'&'9/0#40'5CO'G\$0986#/'\0')C5'5CO'+!'##JD7'0'5' *'!'##
 JD7'0'5',s+N, 'G\$6#/'/#5'\$' \#4'&'9/0#40. '5\$' \KKs0' #&. 'JKKs0' \5C'!'##
 JD7'0'5'!'##JD7'0'5'F00. '/#5'\$'F'Ns0'5\$'Os0' #&. '5CO'G\$0986#/'\0')C5'
 \$F'5CO'/04865&)'EN1SU'0&C#&90. '5\$'PL2oOMO'_D#' \5C' #&' / \0/
 .4;0/4'5%'\$F'02KJo0200' \C'6'0'00; &)'5CO'!'##JD7'0'5'&'9\$; /#5'\$&'
 F/\$G'ON2P'5\$'NX2^ q'Z/8&'4'JoJMN' (#<i0'0[2'1')C6%' /0#95'=0'7#'G'
 \#4' #64\$'50450. 'F\$/'5C'4'9\$; \$6%GO/'b#5'\$&'&' #&' Os0'FOO. '/#5'\$*'
 ;/\$. 89&)' EN1SU' \5C'!'##JD7'0'5'&'9\$; /#5'\$&' \$F'L2P q' #&. '&'e' \$F'
 OL^'j : '&'MK'4'Z/8&'MX' (#<i0'0[2' (CO'/04865&)'EN1SU' \#4'4C\$ \&'
 5\$<'<0' #&' /'E15, #1F1> @5'6'N'Z#['G\$&'5\$&'&)'5CO'9\$; \$6%GO/'b#5'\$&'&'0'1'
 h f c' /0=0#0. '5C#5'<'5C'G\$&\$G0/4' /0/0'9\$&'48G0. '9\$&'8&'0&55%*'
 #85C8)C'!'##JD7'0'5' \#4'9\$&'48G0. 'G\$0/'#; ;. '6%'Z/8&'4'J8OP' (#<i0'
 0t' (#<i0'HX[t'Z'<'5CO';0#_4'F\$/'N1SBN1U' #&. 'N1UBN1S'40a80&904'
 \0/0' \$<40=0. '9&0#/'6%' F/\$G'5CO' ON: ' h f c'4;095/#' \$F'5CO'
 9\$; \$6%GO/4'Z')8/0' HOP[t' #&. 'Z9[5CO/0'4C\$ \0. '\$&6%'&'&'&'G'F\$/'
 0#9C'9/45#6'&'80'9\$; \$6%GO/'Z'=. '0'&'F/#2'

'''' (#<i0' M' 48GG#/'b0. '5C0' /04854' \$F' 9\$; \$%G0/'b#5'\$&4' \$F' !"#JD7^{f0} #&. !"#JD7^{S8} <% '9#5#%45' N' #FF\$/' .&)' EN1S1 ;' /#&. \$G' 9\$; \$%G0/4' \ '5C' !"#JD7^{S8} "&9\$; /\$/'#5'\$& /##&)' &)' F/\$G' P2N' 5\$' XX2J q' * 7&F/\$G']L2^' 5\$'OM^_)sG\$6^#&. ' .4; 0/4'5%' B'F/\$G' O2ON'5\$' O2MX'Z/8&4'OoL* (#<i0'M' #&. '>') 8/04'HOJo0][2' (CO'&G' \$F'EN1S1 ;' .09/0#40. 'F/\$G'OXN'5\$'OOJ'j : '\ '5C' #&'&'&9/0#40'&'5C0' !"#JD7^{S8} '&9\$; /\$/'#5'\$& F/\$G' P2N'5\$'MX2N q' *#&. '&'&'&G' \ #4' \$<40/=0. ' \ CO&' 5C0' !"#JD7^{S8} '&9\$; /\$/'#5'\$& /O#9C0. ' XX2J q2' (\$' '&9/0#40' 5C0' G\$io98#/' \ O') C5' \$F'EN1S1 ; *5C0' !"#JD7^{f0} !"#JD7^{S8} ,sN, /#5'\$

\ #4' '&9/0#40. ' 5\$' JKKs0' \ '5C' =#/'O. ' !"#JD7^{f0} !"#JD7^{S8} F00. ' /#5'\$4' \$F'Ns0'5\$'Os02'&. 00. *5C0' 7&' \$F'5C0' /04854')' EN1S1 ;' \ #4' O&C#&90. '\$\$OM^oON]_D#'\ '5C'&#/'\$ /O/'. '4; 0/4'5%' \$F'02KJoO20K' \ C'iO' _OO; '&)' 5C0' !"#JD7^{S8} '&9\$; /\$/'#5'\$& \$F' OJ2OoX02K q' Z/8&4' ^oJ* (#<i0' M[2' &' #. .5'\$&' 7#' G' \ #4' 840. ' 5\$' G0. '#50' /#; '. ' 9\$; \$%G0/'b#5'\$& \$F' !"#JD7^{f0} #&. !"#JD7^{S8} '&' #' Os0' F00. ' /#5'\$* ; /\$.89'&)' EN1S1 ; '\ '5C' !"#JD7^{S8} '&9\$; /\$/'#5'\$& \$F'&6%'X2^ q' #&. ' #'C') C'&G' \$F'O^K'j : 'Z/8&]*' (#<i0'M[2'

V()%+Mh' c04854' \$F' 9\$; \$%G0/'b#5'\$& \$F' !"#JD7^{f0} #&. !"#JD7^{S8} <% '9#5#%45' N' #.

Table with 11 columns: c8&, +JD7, +!#JD7, ('G0', \$&=2^Zq, !"#JD7, 7&, B, &, &, €G. Rows include pairs like O' MKKs0' Os0' MK' OKK' B' B' LM2P' O2OX' ^2X' OL^' L^2L' etc.

#, : \$&. '5\$&4' !"#JD7^{f0} !"#JD7^{S8} d'K2JK' GG\$6'& : 1M : 6m' H4s=0&5' d'K2J' G7t' /252' 9#5#%45' 5\$' S& q 1''&'5'\$5' /#5'\$F' O. '#5'Os0' #&. '5C0' #G\$8&5'=#/'O. '#99\$/' .&)' 5\$' 5C0' !"#JD7^{f0} !"#JD7^{S8} ,sN, /#5'\$2' +,; f \$&G0/ '9\$&=0/4'\$&4' G0#48/O. '<% '0'1' h f c2'+9, !"#JD7^{S8} 9\$&5O&5' G0#48/O. '<% '0'1' h f c' \$F'5C0' '4\$#50. '9\$; \$%G0/2' +. ' D050/G'&O. '<% '9\$& ; i0. '\ '5C' #&'&'&OJ8#&)' i0' i0' C5' 49#50'&)' O. 0509\$/' #5' XK' j : '&'&'&G' /\$F' /G2'+0, ' f O#48/O. '<% 'DH : '\ '5C' 5C0' 9\$&5')' #&. '409\$&. 'CO#5'&)' /#50' \$F' OK' j : sG'&'F\$/'4#G ; i04' \ '5C' !"#JD7^{S8} '&9\$; /\$/'#5'\$& \$F'KoN2X q' *L' j : sG'&'F\$/'ON2PoOJ2^ q' *M' j : sG'&'F\$/'O]2] oMN2] q' *\$/'O' j : sG'&'F\$/'M^2] oXM20 q2'+f; G' \ #4' 840. 2

V()%+Mh' c04854' \$F' 9\$; \$%G0/'b#5'\$& \$F' !"#JD7^{f0} #&. !"#JD7^{S8} <% '9#5#%45' N' #.

Table with 11 columns: c8&, +JD7, +!#JD7, ('G0', \$&=2^Zq, !"#JD7, 7&, B, &, &, €G. Rows include pairs like O' XKKs0' Os0' NK' J' J' ^] P2N' OMA' O2ON' K2P' OXN' MJ2N' etc.

#, 'H00' (#<i0' O'F\$5\$504'F\$/'O' ; #&'#5'\$&4' +,; f O#48/O. '<% 'DH : '\ '5C' 5C0' 9\$&5')' #&. '409\$&. 'CO#5'&)' /#50' \$F'OK' j : sG'&'F\$/'4#G ; i04' \ '5C' !"#JD7^{S8} '&9\$; /\$/'#5'\$& \$F'KoP2N q' *L' j : sG'&'F\$/'OM2P q' *M' j : sG'&'F\$/'OJ2OoO]2O q' *\$/'O' j : sG'&'F\$/'MX2NoXX2J q2'+f; G' \ #4' 840. '4'5C0' 9#5#%452'

''''V. %' 9' (+ (1\$? %5. (1'5' (+, '#8%'2%3+ #; +, UB3H (CO' DH : ' 98/=04' \$F' EN1U' #&. ' EN11 ;' ; /\$.890. ' <% '9#5#%45' N' 8&. O/' . 0&5'9#5' 9\$&. '5'\$&4' Z+ !"#JD7^c ,sN, d' MKKs0' : 1M : 6m' /252' OKK q' 9\$&=0/4'\$&4' #&. '9\$; \$%G0/4' EN1S1' d' EN1S1 ;' ; /\$.890. ' <% 'N+8&. O/' . 0&5'9#5' 9\$&. '5'\$&4' Z+ !"#JD7^{f0} !"#JD7^c ,sN, d' XKKs0] \ O'0'9\$G ; #/0. '&'&'&') 8/04' L' *HML #&. 'HMP2'> \$/'5C0' EN1U' \ '5C' , G'

m'K2]O*'\$&'&G' \ #4' \$<40/=0. '\ '5C' 5C0' 9\$&5')' #&. '409\$&. 'CO#5'&)' /#50' \$F' #4' i\$ \ ' #4' O' j : sG'&'&'& #&. '&'&'&G' 9#&'<O' \$&6%' \$<40/=0. ' \$&'5C0' F/45'CO#5'&)' 49#&'Z>') 8/04' HMKoMo]2' g' 5C0' \$5C0' /C#&. *5C0' EN1U' \ '5C' ; , G' d' K2] XoK2] P' O' C' <50. '#' &G' F/\$G' OKX' 5\$' OKJ' j : '\ '5C' 5C0' 9\$&5')' #&. '409\$&. 'CO#5'&)' /#50' \$F' M' j : sG'&'&'& <85'&'&G' \ O'0' 400& \ '5C' 5C0' 9\$&5')' #&. '409\$&. 'CO#5'&)' /#50' \$F'OK' \$/'L' j : sG'&'&'&

'''' (CO/04854\$F5CO_&O5'9#&. '9\$G; 85#5\$᤺. '04\$F5CO' c g E' \$F' !"#JD7'0' G0. '#50. '<%' /#90G'9' F' #/O' 9\$&4'450&5' \5C' 5CO' ;/\$; \$40. ' 450/0\$40i095=0' c g E' ;/\$900. '&)' 5C/\$8)C' #& 0&#&5\$G\$/\$; 'C'984'50' 9\$&5\$6' G09C#&4G2' \&' 489C' #' 450/0\$9\$&5/\$6' G09C#&4G2'Z%3%[BF' C#4' #' ;/OFO/O&90'5\$'/O#95' \5C'Z939[BJD7'0' 5\$F\$G'5CO'Z%3%[BF' I Z9B9C#&' ;/ ;#) #5&' 4' ; 09'04'5C#5'4'F#=#/0. ' <%' N20' _9#8G\$6' /O#5'=0'5\$'5CO' Z%3%[BF' I Z9B9C#&' &' 4%450G2' \&' 5CO' &O' 5'G\$&\$G0/'\&40'5\$&'450; '5CO'G\$O'F#=#/0. 'Z%3%[BF' I Z9B9C#&'&' 95'=0' 4; 09'04' C#4' #' \&O5'9'; /OFO/O&90'F\$/'\&40'5\$&' \$F' #&5CO/' Z939[BJD7'0' \5C' #& O&O/) %<#/'O/'6\$ \O/'<'M20' _9#8G\$6' /O#5'=0' 5\$' 5CO' \&40'5\$&' \$F' Z%3%[BJD7'0'2' (CO/O'F\$O' _&'&O5'9' /O4\$685\$G' ;\$6'GO/'b#5\$&' \$F' !"#JD7'0' 9#&' <O/'O#b'0. ' \5C' O&#&5\$G0/'9' 9#5#6%454+z%3%[BF' #&. 'Z939[BF,2'' '''' \$ f6098#/' 9#5#6%45' N' Off095=0% 9\$; \$6'GO/'b04' !"#JD7'0' \5C' !"#JD7'0' \$/ !"#JD7'0' 5\$; /\$.890' C) CBG\$6098#/'B \O') C5' Zp' OK' L' D#[' E1 - /#&. \$G' 9\$; \$6'GO/4' EN1 SU' \$/ EN1 S1 ; \5C' #/'\$84' 60=0&4' \$F' !"#JD7'0' \$/ !"#JD7'0' 8\$; /\$/'\$&2' (CO' &'G' \$F' EN1 SU' \$/ EN1 S1 ; . 09/0#404' \5C'5CO' &'9/0#40' \$F' !"#JD7'0' \$/ !"#JD7'0' 8\$; /\$/'\$&' <85' 5CO% #6' O' C' <5' 4'G'6#/' 5CO'G#6' . 0) /# . #5\$&' 50G ; 0/#8/0' \$F' #)' MLK' j' : 2' h\$5#<8%<' <5C' EN1 SU' \5C' !"#JD7'0' 8\$; /\$/'\$&' \$F' O'J2q' q' #/O' C#/' . ' . 895'60' #&. '5\$8)C' ; #645'94' C#=#&' ; \$6' \$6' O'F' &B 6' _0' 5CO'G#6' 5/#&4'5\$&' 50G ; 0/#8/04' #&. ' G09C#&'9#6' ; /\$; 0/5'04' \5C' #&' 865' G#50'50&4'6'0'45/O&5)C' \$F' ML2'k' u' K2M' f E# #&. ' MK2' L' u' K2X' f E# #&' A\$8&), 4'G\$. 8684' \$F' ^' ^' u' XL' f E# #&. ' MM^' u' j' f E# #&' #&. ' O6\$&' #5\$&' #5' </O#_ \$F' NPX' u' O' q' #&. ' LPJ' u' OL' q' #/04; 095=0%62'

B501 #W*%\$&& 9 #123

(C'4' \\$/_ \#4'48 ; ; \$/0. '<% 5CO' I H'h#5\$'H9'0&90'>\$8&. #5\$&' ZhH>BO^X)OL' F\$' 5CO' 458. %' 9#/'O. ' \$85' #5' : \$6\$/#. \$' H5#50' I &'=0/4'5%2' (CO' 9\$G; 85#5\$' 458. %' 840. '5CO' /04\$8/904' \$F' 5CO' Y'&') - <. 86#C' I &'=0/4'5% ' \$F' H9'0&90' #&. ' (09C&\$6\$) % ZY - I H ([' H8 ; 0/B9\$G ; 85&') 7#< /#/\$% ZYH7[2'

I% -W# \$3' S' \$. 0) /# . #<60' ; \$6'GO/' , 450/0\$40i095=0' ; \$6'GO/'b#5\$&' , /&) B\$; O&&' ; \$6'GO/'b#5\$&' , E1 - , . ' \$6' . 0'

4D88#2'1&4;1; #9 (2#12'H8 ; ; \$/5&') "&\$F/G#5\$&'F\$/'5C'4' #/5'96'0'4' #=#'6#<60'\$&'5CO' 3 3 3'8&. O/'C55 ; 0ss. ` 2. \$2\$/' sOK20KMKs#&'O2' ` ` ` ` ` 2''

+O,' #[' c2' V0#0/' *2' c2' #G<09_''Y2'7'7#'' 9#) ; LED) ; MXYE'' M' OOPKPKJMT' <[' (CO' &O' ; #645'94' 09\$&\$G\$%0' c05C' &' &') 5CO' F85'0' \$F' ; #645'942' C55 ; 40ss \ \ \ \ OF\$ /8G2\$ /) s /O ; \$54sCO8&O' B ; #645'94809\$&\$G\$6/O5C' &' & B \$CO8F88/O8\$F\$; #645'94'9' : 2' f 2' c\$9CG#&' -2' - & . /# . %' H2' D8 . #4' *2' >#< /O4'' V#6) #&' *1# . 045% 'U2' 1' . #6) \$8c8b' H2' 1\$&') 'E2' YO/4C# \ '72'70</O5\$&' -2' 784CO' c2' h#/#&#&' H2' E#C#&' *2' E\$50G/#' : 2' c\$9CG#&' H2' -2' HCO/'F#&' *2' HO#) O'' 3'2' \$&\$' HC'G' E2' H\$</#&' 72' - G#/#8n0560' 9'10!#6+3 ; ?' (6 ; ' /E ; 6'76#/+ ; 1 ; 5' #11F' #'+/#+ ; / ; (=6 ; 5' #1' /6 ; 6/D'11/56/0 ; , ; / ; O ; 1 ; ; ; P3 : ' ; ; '+6+5/6 ('MXYE' . [' *2' c2' #G<09_'' c2' V0#0/' : 2' 3'9\$' *' (2' c2' H'0) i0/' f 2' E0/' %G#&' -2' - & . /# . %' c2' h#/#&#&' Y2'72'7# \ ' 9#6' /#6' MXYE' 'MQR' P^ JB PPO' O' : 2' f 2' c\$9CG#&' f 2' -2' S/\$ & O' S2' H2' 1#& ; O/ &' S2' (2' 1' 08549C0C#&' @2' 1\$C' 12' Y2' Y#/# ; #&#&)' \$5''72' f 2' c\$48' 0 & . \$b#'' 12' (# . #' H2' (OC' c2' : 2' (C\$G ; 4\$&' . ' (O16' MXYE') QSO' O^] 80P02'

+M,' #[' f 2' 1\$&') @2' A2' 12' : CO&' &' &6/E+ ; / ; 2=65 +/6 ; MXYE' 'T' OX' JBOLoT' <' 12' nC#&') *' f 2'=0=0' V2' g2' \$&804' c2' f 2' 3' #G\$8C#&' 2=65 ; %6D) ; MXYE' 'T' U' nJ]BJL' 9' ! 2S2' 78' A2' 78' 12' nC\$8'' 2=65 ; JOJ) ; V) ; MXYE' 'OQ' OOMLLB OOM^t . [D2' Y2' H9C0' . 0/G#&' f 2' -2' 1\$G\$O/' 7' #115' 16#06+ ; MXYE' 'WX' NPNNBPXJ2'

+N,' #[' -2' - &8G#&' f 2' n8<0'' Y2' f 2' n'' -2' h\$ /00&' f 2' h2' - &8G#&' H2' (#<#48G#&' Y/) ; V) ; Z' 1) ; 7' #115' 16#06+ ; MXYE' 'US' O^OBOPX' <' [n2' 7'' *2' A#&') !2' *2' 7\$C' . , A ; L+'' ; 7' (6) ; MXYE' 'U' O^L' 9' f 8C#G#G . '' HC#< &' #'' f 2' -Fb#'' H2' 1#G00 . ' A' 166 ; 2=65 ; / ; 6(/ ; %6D) ; MXYE' 'U' L^BPPT' . [S2' 7#9\$9_'' E2' 1' #60' O'' H2' E' /55'' -2' 3' O' /O'' E2' 7#85'' , 11P16+ ; / ; 1& 56 ; 9#6' /#6' MXYE' 'MU' LN^BLJN' O' f 2' h2' H\$G50=#' 2' E2' E0\$; i04' Y2' D2' H&O6'' , >' / ; (Z' 1(6#=#/1) ; V) ; MXYE' 'T' MNNB

MLM' F' H2' (#) 89C'' (2' \ \ #5'' 12' - <O'' A2' D\$'' &' , 1& 56 ; 9#6' /#6 ; L ; 2' 15' F=6+ /D6 ; %6'6'6' /#6' 20' . 20' f 2' f ...i04=0/' - G450' . #G' 'MXYE' ; 2' OL' PBOJMT') [V2b2' : CO&' #&' , >' +/# ; 2' 15 ; . ' #6' /# ; . ' (O1' ; 30' /# /1+ ; ' /E ; ' F\$' #'' (1' +3 ; H1) ; T0Z' . 20' V2b2' : CO&' [H ; /&) O'BUO/#'] 'SO'6' &' MXYE' ; 2' OPBNP' C' [V2b2' : CO&' 2=65 ; 9' 1# ; %6D) ; MXYE' 'MU' MNXBMMX^t' [' c2' 3' 2' 70&b'' c2' 12' f #/9C044#865' Z' 15' #115' 16#06+ ; MXYE' 'V' O'BJT' [' Y2' H8 . 04C' 12' - <O'' A2' D\$'' , 11P16+ ; / ; 1& 56 ; 9#6' /#6 ; MXYE' 'OW' O'LNKOLL' [' A2' E\$' /O'' : 2' h# /V#5C'' : 2' H\$G0' =%O' . ' () ; Z' 1(6#=#/1) ; EZZY' 'T' M' OXMT' h' 12B f 2' f #80'' D2' H00<#9C'' L /P6 J ; 2=65 ; / ; / ; JE ; J / P ; EZZY' 'MO' XPPBLJ' -2' 12' (86\$' 2=65 ; J / P ; . 6) + ; MXYE' 'SR' MKBMO2'

+X,' #[' 12' 7'' c2' f 2' HC#_#/\$8&' H2' f 2' V8#68G0'' *2b>2' : # ; 0&5' O'' 2=65 ; JOJ) ; V) ; MXYE' 'O' OM' JBONJt' <' [12' (#&') @2' A2b 12' : CO&' 2=65 ; MXYE' 'W' MJXBONMT' 9'] *2b>2' : # ; 0&5' O'' H2' f 2' V8#68G0'' 12' 7'' c2' HC#_#/\$8&' 2=65 ; JOJ) ; V) ; MXYE' 'D' g' O'K20KMKs9C0G2MKO' KXOKJt' . [n2' 0 . 0' *4 . '' E2' Y8/9\$'] c2' 3' 2' 70&b'' 7' #115' 16#06+ ; EZZY' 'M' T' APOJBA' PMK' O' f 2' f' . '' : 2' - /# '' Y2' (O/#&4C'' 12' (#&' 7' #115' 16#06+ ; EZZY' 'T' M' PPLBJXt' [' Y2' (O/#&4C'' f 2' f' . '' (2' - /#_'' H2' A#G4C'' 12' (#&' 7' #115' 16#06+ ; EZZY' 'R' XMOBXMP') [' D2' @2' -] \$45&' *2' S2' 7#& . \$' *2' c2' HCO65&' V10/ ; / ; 1 ; 1& 56 ; 9#6' /#6 ; # ; , / ; (L' 7 ; , 1& 56 ; 2=65 +/6 ; EZZY' 'S' M' PPLBMPJt' [' H2' &' \$80' A2' (\$G\$') (2' 48/8#'' *2' >8/8_# \ #'' ^6 ; 7' < /15' 16<0' /!6 ; 2=65 '6 ; EZTE' 'QU' MM] B MNNT' [' f 2' 1\$&') @2' A2' 12' : CO&' #&' . ' (2=65 ; MXYE' 'U' XMBXJt' [' f 2' 1\$&') @2' A2' 12' : CO&' L /P6 J ; 2=65 ; / ; / ; JE ; MXYE' 'W' X' OJ' B' X' OJ' Nt' [' H2' 7' 8'' : 2' c0&' h2' nC#&' A2' HCO&' n2' 7'' 7' #115' 16#06+ ; MXYE' 'MS' OJ' KXJL2'

+A,' #[' f 2' S8#%C#&' h2' -i06#&' @2' Y' f6\$=' : 2' f 2' (C\$G#4' *2b>2' : # ; 0&5' O'' 2=65 ; JOJ) ; V) ; MXYE' 'TR' OJ' P' MBOJNt' <' [h2' -i06#&' f 2' S8#%C#&' -2' -G) \$8&O'' : 2' f 2' (C\$G#4' -2' S\$& . \$&' #2' E' 8&' A2' V/\$CO&4' *2b>2' : # ; 0&5' O'' 7' #115' 16#06+ ; MXYE' 'QO'] JPB] Nt' 9'] -2' -G) \$8&O'' : 2' f 2' (C\$G#4' (2' c\$480#'' *2b>2' : # ; 0&5' O'' 2=65 ; JOJ) ; V) ; MXYE' 'T' O' A^] 80P] t' . [-2' -G) \$8&O'' : 2' f 2' (C\$G#4' H2' 89#'' (2' c\$4&0#'' *2b>2' : # ; 0&5' O'' L /P6 J ; 2=65 ; / ; / ; JE) ; MXYE' 'QW' M' P' J' M' B' M' P' J' X2'

+P,' #[' S2' 3' 8'' c2' 3' 2' 70&b'' 7' #115' 16#06+ ; EZZY' 'M' T' NXPBNXPPT' <' 2' *# G04'' f 2' -/9#&' -2' S/O5C&' -2' f #5C' O8'' -2' H9C08'' A2' V/\$CO&4' *2b>2' : # ; 0&5' O'' V) ; EZZY' 'MO' OPL' B' OJL' 9' [H2' S' \$OG<0') O&' D2' -2' 1' 6 . 0&' (2' 72' S' 8CG' V2' Y2' 1' 70' G0/' c2' 12' f #/9C044#865' 7' #115' 16#06+ ; EZZY' 'MO' O^AL' B^O^AN2'

+J,' -2' G0' S\$ /) O'' h2' H ; #44 . %' , 1& 56 ; EZZY' 'M' MNOMBMO'] 2'

+I,' f 2' n' 865' >2' f \$8&' #'' (2' 1' <#&' U2' SO' & C#&' E2' E' O' 4C8<0' B' F#t') ' S2' c' O') O'' L /P6 J ; 2=65 ; / ; / ; JE) ; MXYE' 'QR' NXL' J' B' N^AK2'

+OK,' h2' -i06#&' V2' D8' /08'' 72' D080=#O' V2' (/9\$5'' : 2' D8# / . &' : 2' f 2' (C\$G#4' c2' 2' V#8=8'' 2=65 ; 2' 15' 50 /) ; MXYE' 'Q' I' O' K' N' B' O' K' N' X2'

+OO,' n2' nC8\$'' : 2' nC#&' A2' 78\$' A2' 3' #&') A2' A#&' D2' A8#&' D2' : 8'' 2=65 ; 2' 15' 50 /) ; MXYE' 'WQ' O' O'] J' B' O' M' K' O' 2'

+OM,' *2b>2' : # ; 0&5' O'' 7' #115' 16#06+ ; ! ; #'' F E ; 2' 15' 50 / #'' (1' + ; MXYE' 'M' T' O^] ^8 OPK2'

+ON,' #[' 72' c2' c' O6C' D2' c2' f \$\$/O' @2' S2' 7\$< \$=4 . %' V2' 32' : #6#04' V) ; L5 ; 2=65 ; 9' 1#) ; MXYE' 'TO' O' L' M' N'] B' O' L' M' Jt' <' [2' V8#68G0'' h2' -i06#&' *2b>2' : # ; 0&5' O'' H2' f 2' V8#68G0'' V) ; 1& 5 ; 9#6] ; , / ; (L ; / ; , 1& 5 ; 2=65 ; MXYE' 'QS'] KP] O' P'] 9' [h2' -i06#&' : 2' f 2' (C\$G#4' *2b>2' : # ; 0&5' O'' V) ; 1& 5 ; 9#6] ; , / ; (L ; / ; , 1& 5 ; 2=65 ; MXYE' 'QR' N' O' P' P' B' N' O' Jt' . [*2' 32' Y#G0' V2' 32' : \$504' &' ! =6E11 ; MXYE' 'Q' A^] PNB^] P' J2'

+OX,' #[' (2b2' 18'' V2b 32' A#&) : 2' 7' 8'' ! 2S2' 78'' 7' #115' 16#06+ ; MXYE' 'WX' LOLB LMMT' <' [D2' f %O/4' -2' *2' E2' 3' C' 50'' : 2' f 2' > \$/45C'' f 2' S\$ \ &' : 2' Y2' 3' 6#G4'' L /P6 J ; 2=65 ; / ; / ; JE) ; MXYE' 'W' L' M' P' P' B' L' M' Jt' 9' n2' f \$8'' S2' 7' 8'' f 2' 3' #&') 12' ! ' O' E2' 7'' 72' 7'' H2' 7'' D2' : 8'' 2=65 ; 2' 15' 50 /) ; MXYE' 'WX' O' O' X' O' O' O' O' X' O' X' . [' h2' f #8 . \$8'' (2' c\$4&0#'' U2' D\$ /905'' *2b>2' : # ; 0&5' O'' A2' H# /#B' 8'' 2=65 ; JOJ) ; V) ; MXYE' 'OX' ^O' N' O' B' ^O' X' P' O'] [2' MXYE' 'O' V' 06'' : 2' *2' E2' 3' C' 50'' h2' *2' 7\$&' : 2' Y2' 3' 6#G4'' L /P6 J ; 2=65 ; / ; / ; JE) ; MXYE' 'WM'] M' M' A' B'] M' N' K' t' [' f 2' 2' H#&' &' \$ / . -2' E2' D\$=0'' 2=65 ; 9' 1#) ; %6D) ; MXYE' 'MS' X' J' A' B'] X' t'] [h2' h\$G8/#'' c2' 14C'' A2' A#G#G\$5\$'' (2' Y\$. \$' 2=65 ; JOJ) ; V) ; MXYE' 'T' M' X' N' N' B' X' L' O' t' C' [n2' nC\$&') E2' *2' D' 45/#'' *2' >0' i0&' L /P6 J ; 2=65 ; / ; / ; JE) ; MXYE' 'Q' T' X' L' O' K' B' L' O' N' t' (2' f 2' g=55'' V2' 32' : \$504'' V) ; L5 ; 2=65 ; 9' 1#) ; MXYE' 'TO' O' O' A' B' O' N' M' t' [' h2' H ; #44 . %' : 2' 3' 4' & 0' 4 . '' : 2' E18#'' -2' 70' S\$ /) & O'' 7' #115' 16#06+ ; 2=65 ; / ; =+ ; EZZY' 'T' S' R' M' A' M' P' B' M' A' N' P2'

+OL,' !2' (#&') @2' A2b 12' : CO&' . ' () ; 2' 15' 50 /) ; MXYE' 'S' MNXL2'

+OA,' !2' (#&') -2' 12' 3' 045#'' O'' @2' f 2' 3' #4\$&' @2' A2b 12' : CO&' 9#6' /#6 ; MXYE' 'M' I' 1' P' L' X' B' P' L' J2'

+OP,' #[' *2' @2' ; ; &) O'' f 2' H ; ' O) i0'' (3' 2' 1' 0' & / O) O'' 3' 2' -2' 1' 0 / G#&' c2' - & \ #8 . 0'' V) ; L5 ; 2=65 ; 9' 1#) ; MXYE' 'TO' O' N' K' J' B' N' K'] t' <' [3' 2' -2' 1' 0 / G#&' *2' @2' ; ; &) O'' f 2' H ; ' O) i0'' g2' c8&0'' c2' - & \ #8 . 0'' - ! P'' / 156' (># ; # ; EZZY' 'T' 1' O' J' O' N' B' O' J' O' L2'

+OJ,' E2' 2' - &6O<#89C&O'' -2' Y/\$&45' H2' Y' 44&') '' H2' W2' U#) &' @2' 1' /O' . 5' 09_'' -2' E . 5C'] ' E2' D2') G#&' &' c2' 7\$54' S2' c' O') O'' 2=65 ; JOJ) ; V) ; MXYE' 'O' T' O' N' A' K'] B' O' N' A' O' P2'

+OJ,' #[' -2' D8 . 2' -2' Y\$ \ #4 . '' *2' 7' <4b\$ 4 . '' H2' E0&9b0'' 7' #115' 16#06+ ; 9& 5F) ; MXYE' 'O0' P' O' B' J' X' t' <' [: 2' -fO\$G&' g2' S05/#&' *2' : #&#&\$=#4'' Y2' h2' 1\$8_'' 12' Y2' 1' #6#'' V) ; - ! P ; 2=65 ; MXYE' 'RQ' ^M' N' P' B' M' X' X2'

+MK,' #[' f 2B12' 7'' &' (2' U2' c#&#&S#<8'' - ! P ; / ; 6(/ ; MXYE' 'O' O' A' K' P' B' O' A' O' K' t' <' [2' 7' 8'' : 2' f 00' / G#&' &' 12' 3' 2' V\$ / 5b0'' g2' c8&50'' 2' 10' . 5' 09_'' E2' H' / 49C'' Y2' 3' 2' (\$ / & \$ \$ 4'' c2' - & \ #8 . 0'' ^ ^ / ; / ; &' / ; +) ; MXYE' 'A' O' P' K' A' O' P' J2'

+MO,' f 2' H . #'' H2' 1' #'' #40'' (2' - /#_'' 7' #115' 16#06+ ; EZZY' 'T' T' X'] K' B' X'] N2'

+MM,' *2' f 2' @#&' *2' 1' 8'' c2' D'' V' / \$ #G#&' : 2' f 2' (C8<0' / ; 2' 3' 2' f #9\$4' \$' -2' f 2' 7' E\$ & 0'' >2' H2' S' #504'' V2' 32' : \$504'' 9#6' /#6 ; MXYE' 'M' W'] J' O' X' B' J' O' A2'

