

œ é . Ç ? , Õ ë ® ç þ
~ ? , ' Ê
~ ? , L

>/ ö&OìÛÉßçÛÒí ìÛS7

1-1 ÉßçÛÒí S7b#.Ö\% †

ö&OìÛÉßçÛÒí ìÛS7b#.Öí% †c>* Û4Š M*ñ †u Ž\KZ>*I}_9x Ø^S6Û\$
%É'2 q· †N4 M·C_|WZ#æ&ÉÛbÇ;B á,·"†) ~ Å C Š †vW S%É'2*... †8ø B
K>*&k b>%ø8 [q3 [A·Ç ††3n M·G\[6·

1-2 ÉßçÛÒí S7b)É\4

>/ ö&OìÛÉßçÛÒí ìÛS7b)É
ìÛS7b)É\4 ö&OìÛÉßçÛÒí ìÛS7b)É [6·S4 \oÂ>*I_Q b ö&O\$%É'2 í M*ñ _
5!!†*(Aq·KZ8· S4"@#.ìÛ>*[/ "@ öìÛ>*6 /ìÛ>*(ÒìÛ>*S4 wµìÛ >*>
æµ+ ìÛ >* o Â"@#.ìÛ>* o ÂwµìÛ>* wµæBìÛ>*5 ÉìÛ>|g:U)z o ÂìÛ b 11
b%É'2 ?}SBI€>* > « 8_4 †€5É'6 p^8&+†

M » \$ (	9x «
° Ú0è9, \$ (	È#ã
± Ú7T \$ (	•#ã
_ - ÿ x Ü , • \$ (	1 •

í î Û S 7 M (b#. Ú%Ê'2&É [b q .

j Ú4Š6x>- j%Ê'2&É6x>&%Ê'2 íÚ o , \>'	È #ã	®	ç ô 3° 4 v 1 ≠>|
0Ú o \$ (\$ (6x	È #ã	®	ç ô 3° 7 v 1 ≠>|

ö&OìÚÉßçÚÒ M(b²Ú[bq .

í 1ÿ Ó á Â î x² Ú \$ ('¼ b \$ ('¼

M*ñ%Ê'20Ú1ÿ 0Ú1ÿ (	ó ,	Ú	1 B 31° 4 v 1 ≠>|
) 1ÿ >& œ È " î Â î >'	ó ,	Ú	1 B 31° 4 v 1 ≠>|
4Š •6x'¼ – 0b ° n	ó ,	Ú	1 B 31° 4 v 1 ≠>|
± Ú7T Ü î¹ • â ç É ß ç Ú Ò µ S4 1ÿ	ó ,	Ú	1 B 31° 4 v 1 ≠>|
M*ñ N4 µ S 1ÿ	ó ,	Ú	1 B 31° 4 v 1 ≠>|
0Ú o \$ (	È #ã	®	ç ô 3° 7 v 1 ≠>|
M*ñ •4Š M*ñ2A –0É \$ (	È #ã	®	ç ô 4° 4 v 1 ≠>|
Ç !*ñ B N4 •4Š FD \$ (	È #ã	®	ç ô 4° 4 v 1 ≠>|
" j - © Á Ü , • - á ± î 1ÿ	%¼ •	À –	ç ô 2° 4 v 1 ≠>|
%Ê'2 N4 µ S 1ÿ	ó ,	Ú	1 B 31° 4 v 1 ≠>|
M » \$ (	ó ,	Ú	1 B 30° 4 v 1 ≠>|
#" C4)! 1ÿ	ó ,	Ú	1 B 31° 4 v 1 ≠>|
/ m #. ! #. !	ó ,	Ú	1 B 31° 4 v 1 ≠>|
/ m – ò#. !	È #ã	®	1 B 31° 2 v 27 ≠>|
%Ê'20ç § İ î ° N4 1ÿ \$ (	È #ã	®	ç ô – ° 5 v 1 ≠>|
µ p 1#ÿ í (Ò4Š6Ú	È #ã	®	ç ô – ° 11 v 18 ≠>|
	• #ã Ñ Ç		ç ô – ° 11 v 18 ≠>|
%Ê'20ç § İ î ° N4 1ÿ S6Ú4Š	!J 5	Á	ç ô – ° 6 v 1 ≠>|
f • Kr " â ° p É p ¼ î Ç !8ò B N4 \$ (M*ñ •4Š M » \$ (	OY N &ž e		1 B 26° 11 v 13 ≠>|
	ó ,	Ú	1 B 28° 9 v 1 ≠>|
_ - ÿ x Ü , • \$ (	ó ,	Ú	1 B 23° 4 v 1 ≠>|

#" C ó ² - á ± î4 \$ (	ó , Û	1 B 22° 4 v 1 №>|
#.(Ô ê ö%Ê'2*... q3 N4 >ª>½>¹>š>¼>^>->ϕ 1ÿ	ó , Û	1 B 31° 4 v 1 №>|
ì Û ö&O M*ñ8• æ6x	- • F "	ç ô 3° 4 v 1 №>|
È á ± Û. 'ö#. © « , Ò S6Û \$ ( \$ (	!J 5 Å	1 B 16° 4 v 1 №>|
>4 µ+ "@2A%Ê'2 - á ± î4 \$ (	!J 5 Å	1 B 25° 4 v 1 №>|
+-!>É Û%Ê'2 - |6ä\$Î - á ± î%Ê'2 (	OY N &ž e	1 B 29° 4 v 1 №>|
	- V ž "	1 B 29° 4 v 1 №>|
	!J 5 Å	1 B 29° 4 v 1 №>|
+-!>É Û%Ê'2 - |6ä\$Î - á ± î4 \$ (>4 µ+ "@2A4Š6Û 1ÿ	!J 5 Å	1 B 29° 4 v 1 №>|
	- V ž "	1 B 29° 4 v 1 №>|
W i9 Ü ĩª° Ü í » Â - " î	£ =Â ¾ *O	1 B 23° 6 v 1 №>|
í ç%Ê'2 - á ± î4 \$ (	£ =Â ¾ *O	1 B 22° 4 v 1 №>|

í² Û))Ê x - á ± î¼ b2 õ*...'¼

È á ± Û +-!g %Ê'2 Ð!! ³ÿ Û Ý \7• %Ê'2 Ð!! (CResCer)t´ Ð!!6x	- V ž "	1 B 27°>|
È á ± Û - á ÿ x È î© Û á%Ê'2 Ð!! ³ œ » Û µ ϕ¹ Û Å Û î%Ê'2 Ð!! ´ Ð!!6x	ó , Û	1 B 29°>|

1-2-1 M*Ë (

ç ô 5° 3v#~ b ö&OìÛÉßçÛÒí ìÛS7bSB(c b\>~[6•

M5 ó, Û
M5 %¼• À—
M5 -V ž“
M5 -• F"
M5 OYN &ž e
M5 !J5 Á
M5 È#ã @
M5 £=Â ¾*O
M5 •#ã ÑÇ
M5 p á Ol>& G õ>
M5 <.(ú M>& G õ>
"! ò M5 %¼1Â
ø M5 7?4Š '(5
ø M5 ,#ã ô G
ø M5 ,(• È
ø M5 9x• \$¿
ø M5 6õ1Â Á
ø M5 9x « Ý
ø M5 p• %? í
ø M5 Ç N /ž
ø M5 LEONOV ANDREY
1n OE <"5 l x F
"M ,• H Â
"M ,— ô ¾
"M SHANG RONG
"M 9xOE 7o•
"M ð MB
"M 1• Á±
"M &ÿ N ¾ M
"M .(Ø W
"M §Ç E

ö&OìÛÉßçÛÒ !»

Î(Û M+á*Ë (%o § ð È>*9x « \$*>>*,1Â *>`È

ç ô 4° Ø b8 – Å1n Œ

; b ò>&±70 ± Û ± Û7T d Û%Ê'2&É M 5>'
5 &É% j>8 'g/7Á Ê Ý b ö&O \ 4D&ã5 "0•yo Â >& ö&O ì Û"l 91n*OC>'
, \>8 w µ œ B ì Û %Ê'2

!F N r&1/2>&¾ í ± Û " -"@2A&É Û%Ê'2 d>- M 5>'
5 &É% j>8 ¼ Á í Ð – j ß0£ ì Û >& ö&O ì Û"l 91n*OB>'
, \>8 (Ò ì Û%Ê'2

*><; ` e ¾>&¾ í ± Û ± Û7T#. Û%Ê'2&É- M 5>'
5 &É% j>8 ¼ %& j Û « ± î b S4 \ o Â >& ö&O ì Û"l 91n*OC>'
, \>8 S4 "@#. ì Û%Ê'2

1-2-2 M*Ë (b\$.

ç ô 4° 6 v 30¥	COSQUER GOULVEN	>&[/"@ ö ì Û%Ê'2	" M >' 3i*Ë
8 v 1¥	%¼1Â	>&o Â w µ ì Û %Ê'2	"l ö M 5 >' G#Ý
11 v 1¥	OLEKSIY BOGDANOV	>&[/"@ ö ì Û%Ê'2 %Ê'2	"l ö M 5>' G#Ý
ç ô 5° 3 v 31¥	OLEKSIY BOGDANOV	>&[/"@ ö ì Û%Ê'2 %Ê'2	"l ö M 5>' ö † 6 ç _ X A3â*Ë
	&ÿ N ¾ M	>&S4 "@#. ì Û%Ê'2	" M >' °3â*Ë
	.(Ø W	>&[/"@ ö ì Û%Ê'2	" M >' ñ4Š d 9x'¼ S6Û Û / " M G#Ý b S u 3i*Ë

1-3 ÉßçÛÒí S7b±Û7TM*ñ

1-3-1 ±Û7TM*ñb%†\»Ñµ©ÛáíÏÛ©î

>/ M*ñ% †

ö&OìÛÉßçÛÒí ìÛS7c>*Û4Š M*ñ[bìÛ†/(Ô\$×_3_ÛESÇ!\\ v_>*Û
(5 b M*ñ ö% †vXÇ!†,S_wE°€>*"@2A&ÉÛbp°†(u•ö¿Ûe\KZbìÛ\
Q b6ö4 (5 _>E•q'f b8•æ†)~6ä8Z8C%É'2*...>|g9xØ^S6Û\$×%±1'†wM•*Ë
Ç†8ôBM•G\†%\$×\M•#'æ&ÉÛbô3ÿ^Û7•ìí\7•ìí_ì_PÂKZ>*èW
b M*ñ% ††0¿ M•
>&>/>'ìÛbS6Û\$×%±1'†/(ÔìKZM<•\\v_>*Û(5 b ö% †vXÇ!_v4ÄÖKSœ
È8 M*ñ †/œ:
>&>0>'ìÛ(5 b Û7•\$×^%É'28•æbÑ±_ÂL>*Û(5 b%É'2*... \°vKq'f b%É'2_ì€
•G\b[A•M*ñ †/œ:
>&>1'&k \$×0[13_PÂM•Su_>*ìÛ\Q b6ö4 (5 _>E•9xØ S6Û*Ë Ç†8ôBM•M
*ñ †/œ:
>&>2>'&k b\7•ìí_ì_PÂM•Su_>*,e1 M*ñí_ M*ñ †G#ÝKSìÛS6ÛM*ñ_
' \$×_v~) t

>0 »Ñµ©ÛáíÏÛ©î

ö&OìÛÉßçÛÒí ìÛS7[c>*±Û7T[9xØ^ìÛbS6Û%±1'x•2†ÛjSu_20[
^ö&OÛŠ†wK>*)/<N+~kh\$í"Š†5 a>* \$×_,K8(5 †6äÂKZ8C-'_)t
Û#Ï†>*Û4Š M*ñ†wES(5 _\}f€NËCwE°€•

1-3-2 ± Û7T M*ñ b B Ý \ Q b è0É

í ç ô4°Ø ~{ Û#Õ X

>&ç ô 4° 5v1¥# ' ~>'

° Û ° Ø	ì Û S 7 \$ ^ 1 " & ì S ‡	ì Û S 7 \$ ^ 1 " & ì ‡
ç ô – ° Ø		10 >&>' 1 >y6>{
¹ B 30° Ø		1 >y1>{
œ 0£		11 >&>' 1 >y7>{

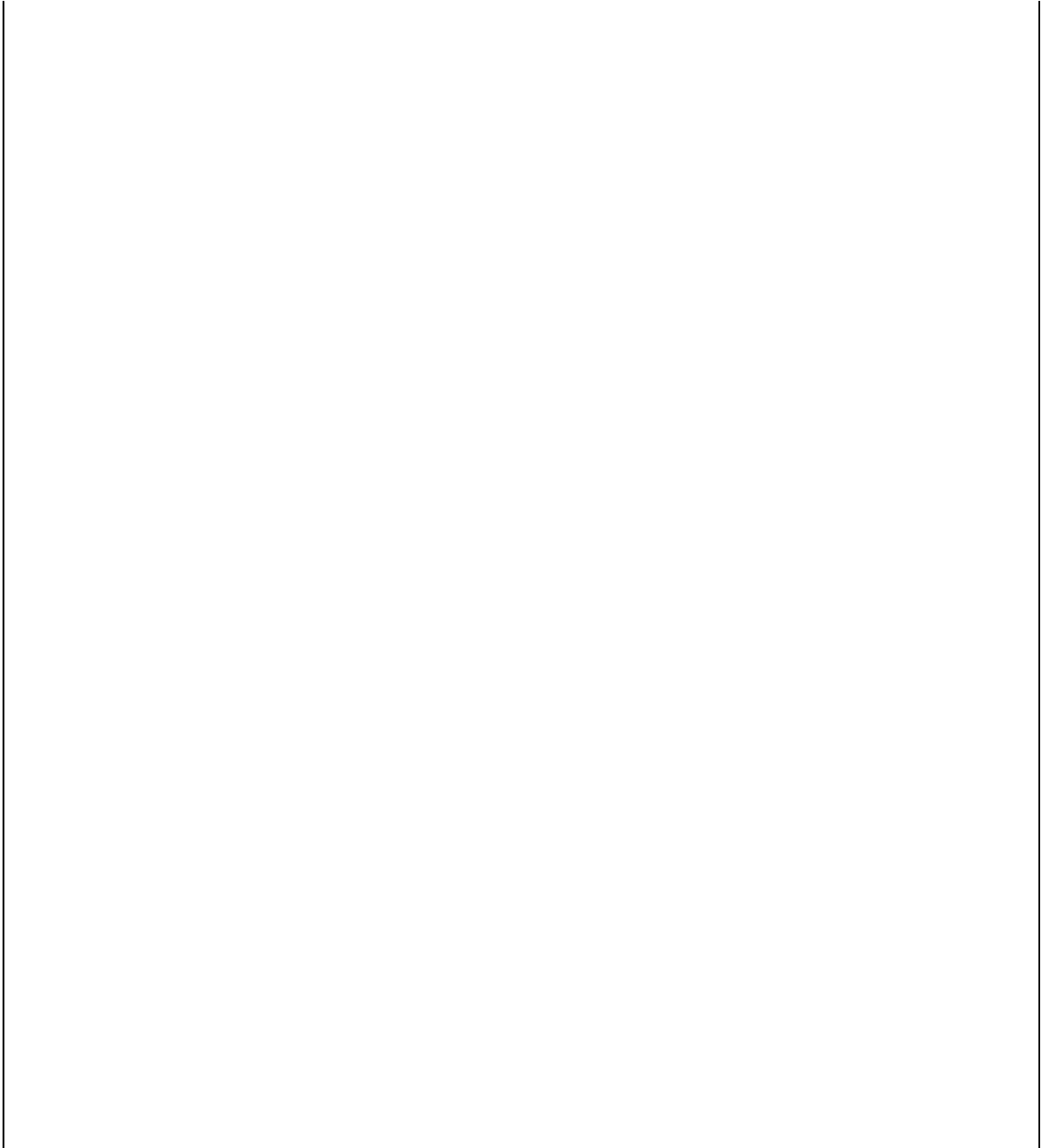
>& >' Æ c ê Ê [Æ X

Æ c \ 2 \$ Û # Õ X [Æ X

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í ç ô 4° Ø ö&Oì Û É ß ç Û Ò 5 &É% š Ÿ²

í 2020° Ø è7F ì Ò S 7 5 &É% 1 p M0t



í ›%Ê'2 %Ê'2 b ~ (Û#Õ X

>&ç ô 4° 5 v# ' ~>'

%Ê'2 i	M1	M2	D1	D2	D3	D4
S4 "@#. ì Û%Ê'2 [/"@ ö ì Û%Ê'2	3	6				

1-3-3 ± Û7T#Õ b \Æ Û \$î/²)¼

	\Æ Û ó X
\$ ^1"&i S ‡ (1)	98
\$ ^1"&i ‹ ‡ (2)	49
\$ ^1"&i S ‡ í ‹ ‡¹ (3)	8

>&2022 ° Ø b\$î/² _ X 8 Z0°3U>8 2022 ° 4 v ? } 2023 ° 3 v r [>'

- (1) \$ ^1"&i S ‡ b Û#Õ @¹ %Ê'2*... b\$î/² ó X
- (2) \$ ^1"&i ‹ ‡ b Û#Õ @¹ %Ê'2*... b\$î/² ó X
- (3) \$ ^1"&i S ‡ í ‹ ‡ b Û#Õ @¹ _¹ %Ê'2*... b\$î/² ó X

1-3-4 ± Û7T#Õ b \7• Û \$î/²)¼

	\7• Û ó X
\$ ^1"&i S ‡ (1)	23
\$ ^1"&i ‹ ‡ (2)	27
\$ ^1"&i S ‡ í ‹ ‡¹ (3)	1

>&2022 ° Ø b\$î/² _ X 8 Z0°3U>8 2022 ° 4 v ? } 2023 ° 3 v r [>'

- (1) \$ ^1"&i S ‡ b Û#Õ @¹ %Ê'2*... b\$î/² ó X
- (2) \$ ^1"&i ‹ ‡ b Û #Õ @¹ %Ê'2*... b\$î/² ó X
- (3) \$ ^1"&i S ‡ í ‹ ‡ b Û#Õ @¹ _¹ %Ê'2*... b\$î/² ó X

1-3-5 Ÿ ^1= e\$!/?)¼

%¼] ±3\	³ Ö ¿ Ý S4 † w M • _7Á ö Ni(dmit) ₂ 7 _ > E • [%& – œ á ° n \ "@ ö0Û o	[/"@ ö i Û
° • i æ	*%?'5 W [– œ á †7ÿ ° I O • ³– œ á • î ì µ ° 'b0è 8>* ö+ 0Û o \ – œ á œ Û © Ñ x Þ î © Û á	S4 "@#. i Û
Û#ã x € •	5 Û ¥&Î	œ µ+ i Û
5 0b F Æ	³%ê4ß Ó ³ Ý b ú ·8 ·!Ö4D&ã _2s I M • œ0Ž7³ ² – ¼ Ñ j « b%Ê'2	o Â"@#. i Û
•5 -	2 X b í ~ (ò p ° † µ t í « Ç • á4Ä) É † w M • ,0d † ‡ 4D&ã5 "6 / b œ B I g o Â ö b1*	w µ œ B i Û
` § \	– Ñ Ä ÿ Ä á1 _ / b œ B \ œ o Â b0Ž Ä	o Â w µ i Û
5 (ê%®	% · Q è o Â p6è / b ¼%& "7³ µ S b6ä\$Î \ ¼%& (œ b0è s	S4 "@#. i Û
5 =Â %? F	6 î ' 1o+Äxb3ÿ Ø X > | g + 6 ; ð \ S(³P)b#Ö B p "á ô	o Â"@#. i Û
Ê5	ÿ Û ý ^ P y _ | W Z1 _ I € • ° Û ÿ « ï Ý Ç • Û á 2x (É Ì Û Ð î b } O ‡ ÿ Û Û , •	S4 w µ i Û
í Ý ±(	œ1 2s) œ6ä/ã o Â _ I p M , > 96 ~ ö b Ý	o Â w µ i Û
"ê#ã %? Ç	ÿ Û Û , • _ | • v / ¬ b5 Ê î l b i Û \$ x " É B î ³	[/"@ ö i Û
) N ,e9t	É Þ – « Û î ° Ì Û œ ÿ - Ó ± Þ î ° b } 7Á "@ ö0Ž Ä	[/"@ ö i Û
;î œ 9t	Ó « Ä ~ " î (œ 2 I g DFT0£ î † # Ý 8 S " Ý ÿ Ý * (n I g " Ý ¥ ÿ © * (n Ê á @ á † w M • 5r § o 7ÿ ' ° 6 / b « Æ á " g Ä _ 6ö M • % Ê ' 2	: U) z o Â i Û
;î% J ¿	] ^ w µ - ç + w † / Ö 0] K S Cu ₂ O ¼ Ä (• Ê \ Ag \ b Ä – Ó ± Ý î I g Q b CO ₂ 7 Á Ö Ž 4 O –	6 / i Û
œ#ã 4H Ó	a © " Ä , > 96 ~ (Ê b œ " Û Ý i o Â b p6è / ¼%& (œ : *(n ö) * (@ o Ä ö _ I p M s 8 j	S4 "@#. i Û
,5 7• ±	¹ H NMR † # Ý 8 S Ý , Ä - á 6 / \ Q b 7 _ | • Á ß π á ° n o Ä b µ S 1 *	: U) z o Â i Û
ö#ã M ž	7g – œ á # ú 8 q ö c b ¾ % T + w % & 3 ? & ã † Ä # Ý K S Æ µ • Û á ø š Ð Ý © Û á b0Ž ™ î	(Ò i Û
Ä ä Ä "	Ø3¶ _ š ¾ ½ Ý ö † 7ÿ ' K S Cu(I)6 / b4E ¥ \$ x CuAAC š n	6 / i Û
ã#ã 7• ±	£ – (ò * (n 9 x M s Û á i œ " @ > 8 Í « Ç " , ° Û Ê » Û á b œ B è 0 !	w µ œ B i Û
i] 2< '4{	5 Û ¥&Î	o Â w µ i Û
9x1 7•	% ò ; ä ' E (ò » ¼ î ³ c † # Ý 8 S Ý , ½ ~ Ö b P y ³ µ S b0Ž Ä	: U) z o Â i Û

9x « Ø 8	5 " ¼ Ä(• Ê [²8 Ý8í K S+! P ö ¼ Ä ç Û Ç™ á b0•y q ö b0Û o\ ¼ Ä ç Û Ç™ á b v X4=-, Ý b 5 í	S4 w µ ì Û
" g 1 ´	5 Ê ì Û0£ì l g SEIRA(œ 2 †#Ý 8 S Û á ± Ä - » / Ð - ¼ í " j ³ Ä - »6 - œ á b S4 \ Q b4E ¥ ö b%Ê'2	S4 "@#. ì Û
p] 8 j A	Ag ₃ Cu ^{18 6} / Ø ½ µ ^{0 †} C46P Û á 2 Û4Ä) Ê [ë « K S • !"g ¼ Ä j Û « ± í b œ B \ ö 2A	6 / ì Û
p ¾ &x2	Í « Ç • á -1µ j Û « ± í [Au ₉ (PPh ₃) ₈] ³⁺ b/á':1 2s0Ž 7 ^{3>8} o7Á Ê X b š ì † : ¥ "6ä/ã b0{	S4 "@#. ì Û
~#ã ¾ |	Å « Þ ° Ý © á " Þ í á † ö% \ K S2x (Ê } O † Ì Û Ð í b œ B \ µ « ° ß K _ | • } O † S4 D š	S4 w µ ì Û
Ø5 Å ´{	Ý - «4ß ö š D Ý †3H \ K S, K 8 Í ~ (ò o Â c p0 \ œ B o Â l b Ž6ä	w µ œ B ì Û
#ë#ã -	P @ ä œ _ | ~#Ö B M • o Â p6ë / b2A5 (Ò \ * ¼ %& (œ b0è s	S4 "@#. ì Û
Ç œ f :	3d(Ô4D&ã5 " @ßd4f6 / b S4 \&" ö _ Z < • s8j	[/" @ ö ì Û
x £ %? k	Æ á š î ° • Ý Í á Í « Í Û á \$Ñ5 (II)6 / † 0•y \ K S " Ý Ý á b Ä » ß © Û Ý ì _ l p M ¹ Ñ4Ä) Ê b s8j \ 5 " 7 ç • _ | • • 3ÿ Ý	6 / ì Û
È1Â m "	5 Û ¥ & Î	œ µ + ì Û
î M	, K 8 Ý - «4ß ö š D w µ Í ~ (ò ì œ "@ R ß (mdan) b œ B \ o Â	w µ œ B ì Û
U ô)d €	œ Æ á - µ ^{0 †} #Ý 8 S " M ž Û « µ `# + b/²8 7Á, '0£	(Ò ì Û
§#ã ´	5 Û ¥ & Î	o Â w µ ì Û
•#ã W	§ X b - œ á &ã • µ S † w M • Ì Û œ Ý - Ó ± Þ í ° b œ B \ 1 7Á "@ ö0Û o	[/" @ ö ì Û
•#ã "	" Û - á b4D&ã5 "0•y Ç Û î ^ • Ý Í « ± ½ Ý ì o Â	w µ œ B ì Û

1-3-6 \$^U)

5 Z ° v ¥ † Æ _0° M

WANG ZHE

ç ô 4° 9 v 20 ¥ > & # â >'

Reactivity of Singlet Diradicaloids Embedded in Macrocyclic Skeleton and Aufbau Electronic Configuration of Triplet Diradicals

(Đ j ß # " g μ A † w M • M 5 8 o a Ū a • Ý b o Ä ö l g U 5 8 o a Ū a • Ý b 8 Aufbau 7 Á Ê S 4)
z >8 ó , Ū M 5
j >8 !J 5 Ä M 5 > * # ã Ñ Ç M 5

LIU QIAN

ç ô 4° 9 v 20 ¥ > & # â >'

'\QDPLF 6ROYHQW (IIFW RQ WKH /L Single Bonding 6LQJOHW 'LUDGLFD
œ ö † v X M 5 8 o a Ū a • Ý b Q è _ l p M • \$ x P y Ý)

z >8 ó , Ū M 5
j >8 !J 5 Ä M 5 > * # ã Ñ Ç M 5

BANGUN SATRIO NUGROHO

ç ô 4° 9 v 20 ¥ > & # â >'

Synthesis, Properties of Graphene Oxide, Graphene Oxide Quantum Dots, and Its Composite: A Cesium Detector for Environmental Monitoring

(4ß ì ç Ū Ç ™ á 4ß ì ç Ū Ç ™ á 5 Ê » μ ° Q b 0 œ / b œ B \ ö 2 A > 8 # " C Ô ½ ± Ū á ç b S
u b - © ~ Ò è p)
z >8 p á 0 l M 5
j >8 - V ž " M 5 > * È # ã ® M 5 > * % ¼ • Ä - M 5

,5 f ...

ç ô 4° 9 v 20 ¥ > & # â >'

Studies on Molecular Recognition and Supramolecular Polymerization of Bisporphyrin Cleft Molecules

(Ä - Ì Ý Ç • Ū á j p Ç ° (Ê b (Ê 1 1 ' l g 2 x (Ê 5 œ _ 6 ð M • % Ê 2)
z >8 !J 5 Ä M 5
j >8 ó , Ū M 5 > * # ã Ñ Ç M 5 > * Ç N M ø M 5 > & ì Ū d Ū Ê ß ç Ū Ò >'

BEKELESI Wiseman Chisale

ç ô 4° 12 v 19 ¥ > & # â >'

Difference in Migration of Radioactive Element Originating from Fukushima Daiichi Nuclear Power Plant Accident: Factors affecting transfer factor ¹³⁷Cs from soil to rice and Difference in migration between ¹³⁷Cs and ⁹⁰Sr in the Environment

(& Ÿ á " M N Ê Š Š Î 7 Á d l > _ # ä ¶ M • : U ö - (ò b & ã / œ b % & 4 * > 8 u p ? } ¥ Ó l b ¹³⁷Cs b & ã / œ
€ X _ l p M l Ê \ # " C p [b ¹³⁷Cs \ ⁹⁰Sr b & ã / œ b 4 * 8)
z >8 p á 0 l M 5
j >8 - V ž " M 5 > * È # ã ® M 5 > * % ¼ • Ä - M 5

,#ã ,i -

ç ô 5° 3 v 23 ¥ > & # â >'

Construction of Supramolecular Branched Polymers via Molecular Recognition of Self-Assembled Capsule

(+ - k 7 Ÿ œ • Ê - Ý b (Ê 1 1 ' _ | • 2 x (Ê (± 15 œ / b œ B)
z >8 !J 5 Ä M 5
j >8 # ã Ñ Ç M 5 > * ó , Ū M 5 > * Ç N M ø M 5 > & ì Ū d Ū Ê ß ç Ū Ò >'

± £ 19 Ê

ç ô 5° 3 v 23 ¥ > & # â >'

The Elucidation of Reaction Mechanism of Organic Photochemistry Using DMPO Spin Trapping Method

(DMPO « Æ á ° Ū μ É 2 † # Ý 8 S w μ œ o Ä μ S b 0 Ž Ä)
z >8 ó , Ū M 5
j >8 !J 5 Ä M 5 > * # ã Ñ Ç M 5 > * á # ã / ñ ^ ø M 5 > & X Ū Ê ß ç Ū Ò >'

1-3-7 >R>? b)¼

± Û7T \$ ^1"&i S ‡ í † ~ Û#Õ>&\$ Û#Õ c7V C>' _>*, •î³ â ç í" © « ± â °>& TA>' b
 © « , Ò †4:#Ý K Z 8 • M (_ | • M*ñ\$×4Ä Ö b W _ i Û&É 3° ²ÿ b i Û 9, b M*ñ/õ “
 » †/œ f O • G \ _ | W Z>* ± Û7T#Õ b M*ñ+ Š x M*ñ % 2 b ¥ V † W ~>* æ _*... \ K Z b ° P
 î½ â ç b µ † f j M •

ç ô 4° Ø b TA

¶ i	d "%É'2	Û °	¶ i	d "%É'2	Û °
%¼] ±3\	[/"@ ö i Û	M2	5 • T	o Â w µ i Û	M2
.(s Y A	[/"@ ö i Û	D1	~#ã ¾	S4 w µ i Û	M2
°• i æ	S4 "@#. i Û	M2	¹, ¬´	w µ œ B i Û	D1
,• ô2<	o Â w µ i Û	D1	#ã ³x	œ µ+ i Û	M1
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ÔS. Muramatsu A. Matsuyama, D. Iwanaga, K. Ohshimo, M. Kida, Y. Shi, Shang Y. Yamamoto, F. Misaizu, Y. Inokuchi >8 Hypervalent Carbon and Iodine Compounds Investigated by Cryogenic Gas Phase Spectroscopy. ¥ • ì Û " 103 Ó Ø ° (2023 3 v, 5 # ã) > & M+á1n † >'

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- Ô%¼] ±3\, (Ø W, •.(,4" , Cosquer Goulven - V ž " , 0] /œ , p §2 *O, OYN&ž e {18]crown-6 ? } ^ • ³ Ö ¿ Ý S4 † w K S _7Á ö Ni(dmit)₂ 7 b [%& - œ á ° n \ "@ ö Ū o ; á ? ± Ū) r œ#. d Ū4Š 3 • 9 27u "% \$x í î Ý , ¥ • î Ū * -(Ô œ μ+ † q %Ê'2 " 11 G § Ð î - Ñ ¼ î , 2022.9.910 (Ī « ± î ŠĪ'² , 2022.9.10)
- Ô • #ã W, (Ø W, •.(,4" , Cosquer Goulven - V ž " , OYN&ž e ³ % \$ ° K S § X b - œ á &ã -3H † w M • Ī Ū œ Ÿ - Ó ± Þ î ° b6â ŠĪ ; á ? ± Ū) r œ#. d Ū4Š 3 • 9 27u "% \$x í î Ý , ¥ • î Ū * -(Ô œ μ+ † q %Ê'2 " 11 G § Ð î - Ñ ¼ î , 2022.9.910 (Ī « ± î ŠĪ'² , 2022.9.10)
- Ô) N, e9t , (Ø W, •.(,4" , Cosquer Goulven - V ž " , OYN&ž e ³ M } Š W [7Á v † #Ö L • Preyssle Ī Ū œ Ÿ - Ó ± Þ î ° b ¥ Ä Ä ö Ū o ; á ? ± Ū) r œ#. d Ū4Š 3 • 9 27u "% \$x í î Ý , ¥ • î Ū * -(Ô œ μ+ † q %Ê'2 " 11 G § Ð î - Ñ ¼ î , 2022.9.910 (Ī « ± î ŠĪ'² , 2022.9.10) f & ½ Ī « ± î 29 w29
- Ô J#. , (Ø W, •.(,4" , Cosquer Goulven - V ž " , OYN&ž e ³ - Ñ À ½ ° ß Ÿ © » Ū a • Ý b S4 0 Ž Ö > | g" @ ö Ū o ; á ? ± Ū) r œ#. d Ū4Š 3 • 9 27u "% \$x í î Ý , ¥ • î Ū * -(Ô œ μ+ † q %Ê'2 " 11 G § Ð î - Ñ ¼ î , 2022.9.910 (Ī « ± î ŠĪ'² , 2022.9.10)
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- Ô%¼] ±3\, (Ø W, Cosquer Goulven - V ž " , 1 • Á ± , !J 5 Á , 0] /œ , p §2 *O, OYN&ž e ³ [%& - œ á ° n S < _ > E • _7Á ö Ni(dmit)₂ 6 / b7Á Ê " g Á š3Q ; Þ * O ? ± Ū % @ V Ÿ Ö á Ä « , " 16 G (Ê & É Ū 0 : 1 = 2022 " ~ , 2022.9.1922 (Ī « ± î ŠĪ'² , 2022.9.2)
- Ô 8ë:ý / Ç , •.(,4" , (Ø W, Cosquer Goulven - V ž " , OYN&ž e ³ Ū î Ý Ī « Í á 4ß † Ÿ 8 í K S † É Þ - « Ū î ° Ī Ū œ Ÿ - Ó ± Þ î ° b œ B ; Þ * O ? ± Ū % @ V Ÿ Ö á Ä « , " 16 G (Ê & É Ū 0 : 1 = 2022 " ~ , 2022.9.1922 (Ī « ± î ŠĪ'² , 2022.9.2)
- , >*, - V ž " , ³ Ç Ū Á á + ° Ū É ° Ç " á 4) (Ê b œ 1 2 s7Á Ê &ã • o Á ; Þ * O ? ± Ū % @ V Ÿ Ö á Ä « , " 16 G (Ê & É Ū 0 : 1 = 2022 " ~ , 2022.9.1922 (• 8 C E ŠĪ'² , 2022.9.2)
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- Ô •.(,4" , w9? X&ã "ã 1Á7c*g, (Ø W, Cosquer Goulven - V ž " ,) X á Á, OYN&ž e ³ É Þ - « Ū î ° Ī Ū œ Ÿ - Ó ± Þ î ° † #Ý 8 S " (Ê 1 7Á / b 1 7Á " @ ö D š ; È á ± Ū ¾ È á Ÿ Ö á Ä « , 2022 ° ¥ • î Ū p \ D \ -4Š ± È á ± , 2022.11.1213 (• 8 C E ŠĪ'² , 2022.11.12)
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- Ô%>4S¶, (sYA, w«ž", Ô5 ±3\, (Ø W, Cosquer Goulven - V ž " , 0] /œ , p §2 *O, OYN&ž e {18]crown-6 - œ á³ Ö ¿ Ý S4 † w M • [Ni(dmit)₂] 7 b [%& - œ á í (Ê

° n μ+ b6ä Å ; È á ± Û ¾ È á ÿ Õ á Ä « , 2022° ¥ • ì Û p \ D \ - 4Š ± È á ± ,
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 Nishihara ³" (Ê 1 7Á / _ | • , Ê Y y\$Í ö Ó Ô Û b & 'g ; Establishment of new type of
 non-volatile memory devices with single molecular electret ¾ ç#. &É ± Û5 #ã Ý Ò ä Ã « , ¥ • ì
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- Ô u †%\$ Ç , %¼2 4) " , 7 ÷ Æ * " , p £ &x3d, Goulven Cosquer 0Y N&ž e - V ž " , ³I N ö †&g M
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- Ô %¼] ± 3 \ , (Ø W , • (, 4 " , Cosquer Goulven - V ž " , 0] /œ , 9x « Ê " , p § 2 * O ,
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- Ô) N,e9t , (Ø W , • (, 4 " , Cosquer Goulven - V ž " , 0Y N&ž e ³ M } Š W [7Á v †# Ò
 L • Preysle P Ì Ü œ Ý - Ó ± P î ° b 7Á Â'Ä ö ; Electric field response of Preysstype
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- Ô 8ë:ý / Ç , (Ø W , • (, 4 " , Cosquer Goulven - V ž " , 0Y N&ž e ³ ; Û ~ ä š î , Ý Ø ½
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- Ô J# . , (Ø W , • (, 4 " , Cosquer Goulven - V ž " , 0Y N&ž e ³ - Ñ À ½ ° ß Ý © » Û
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 properties of crystals containing supramolecular cations constructed by iminonitroxide radical and
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- Andrey Leonov » - ¶ , Experimental Physics, Center for Electronic Correlations and Magnetism University of Augsburg (Neel skyrmions in lacunar spinels)
- Andrey Leonov « - « , Department of Physics, University of Basel, 4056 Basel, Switzerland (Dynamic cantilever magnetometry)
- Andrey Leonov œ Ů á² , Faculty of Applied Sciences, Delft University of Technology (SANS measurements on cubic helimagnetic spiral and skyrmion states)
- Andrey Leonov œ Ů á² , Zernike Institute for Advanced Materials, University of Groningen (theoretical models for chiral magnets)
- Andrey Leonov " Ó Ů • , Soft Materials Research Center and Materials Science and Engineering Program, University of Colorado (toron spherulites and other topological particle states in chiral liquid crystals)
- Andrey Leonov ß © " , ITMO University (numerical studies on topological barriers between different modulated states)
- Andrey Leonov » - ¶ , IFW Dresden (computational facilities, cluster simulations)

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Sadafumi Nishihara, Masaru FUJIBAYASHI, Katsuya INOUE, Masahiro SADAKANE, Molecular memory and method for manufacturing molecular memory, Patent Application Publication, United States
Pub. No. : US 2022/0302398 A1, Pub. Date: 2022.922, Applicant: HIROSHIMA UNIVERSITY

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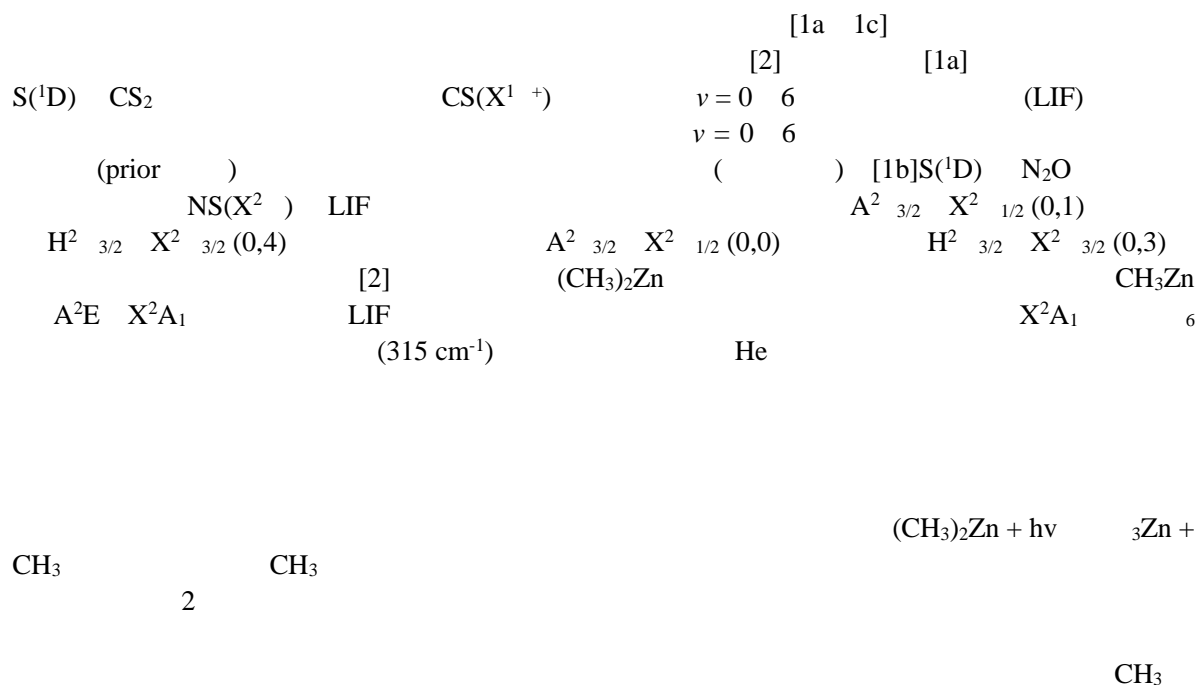
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(2013-2016, 2019-)
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, Chemical Physics Letters, Advisory Editorial Board (2016-)

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, Organizing
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, Symposium on Advanced Molecular Spectroscopy, Organizing Committee Member

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, Editorial Board Member, *Catalysts* (2019)

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- Dand HAI NGUYEN, Manabu Abe Synthesis and Photochemical Properties of Coumarin-based Thioester and Thionoester. 2022 (2022.9,)
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, Professor Anna Gudmunterdotirr,
, Professor Das Thermatorr,
, Professor Norbert Hoffmann,
, Professor Claudine Katan, 2
, Professor Gavin Tsai,
, Professor Tzu-Chau Lin, 2
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, 13th International Conference on Relativistic Effects in Heavy-Element Chemistry and Physics, INTERNATIONAL SCIENTIFIC COMMITTEE (2019)
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, TCG-CREST (), Professor Bhanu Das, CP
, , Professor Rizlan Bernier-Latmani,
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Journal of Photochemistry and Photobiology C: Photochemistry Reviews (Elsevier),
Associate Editor 2021 2023

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Chemical Physics Letters, Advisory Editorial Board 2016

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RSU conference 2023, International Scientific Committee

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International Conference of Excited State Aromaticity and Antiaromaticity, Kaunai,

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(Chairperson) The 19th Nano Bio Info Chemistry Symposium(NaBIC2022), the Library Hall of Central Library in Higashi-Hiroshima Campus of Hiroshima University, Japan. 2022 12 16 17

Goulven Cosquer (Co-Chairperson) The 19th Nano Bio Info Chemistry Symposium(NaBIC2022), the Library Hall of Central Library in Higashi-Hiroshima Campus of Hiroshima University, Japan. 2022 12 16 17

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(Dynamic cantilever magnetometry)

Andrey Leonov, Faculty of Applied Sciences, Delft University of Technology (SANS measurements on cubic helimagnets, oblique spiral and skyrmion states)

Andrey Leonov, Zernike Institute for Advanced Materials, University of Groningen (theoretical models for chiral magnets)

Andrey Leonov, Soft Materials Research Center and Materials Science and Engineering Program, University of Colorado (torons, spherulites and other topological particle-like states in chiral liquid crystals)

Andrey Leonov, ITMO University (numerical studies on topological barriers between different modulated states)

Andrey Leonov, IFW Dresden (computational facilities, cluster simulations)

25th IUPAC Conference on Physical Organic Chemistry (ICPOC25), Co-Chair, 2022 7
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, Organizing

Committee Member

Symposium on Advanced Molecular Spectroscopy, Organizing Committee Member

, Professor Anna Gudmunterdotirr,

, Professor Das Thematorr,

, Professor Norbert Hoffmann,

, Professor Claudine Katan, 2

, Professor Gavin Tsai,

, Professor Tzu-Chau Lin, 2

, Professor Xiaoqing Zeng,

TCG-CREST (), Professor Bhanu Das, CP

, Professor Rizlan Bernier-Latmani,

, Professor Stefan Weyer,

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OLEKSIY BOGDANOV

ANDREY LEONOV

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H @>F.0*3UFçF0F0G GIGoGGGMGŠFÿ † = š ŸGIGoGGGMGŠG?²FçF0F0G F¹ \0ñGIGoGGGMGŠ è7FFp Fè6ä0¿ ðH S ‡ jFÿ † ðH FÜ š ŸFéG FäFøG ** F±F0G FÜH 5 &É% GMGŠGn&É% FøFçF06ä1nFéG æFÜF0G FpF±H š Ÿ ° ØFpGEGwG*GG'¼FÜG G & 1 FèG FäFøF¹

H @>F.FÄ Ç e&k &É Ü(Ö&É% *LFÄFÜG >à ")H F.FÄ±±&É Ü(Ö&É% *LFÄFÜG >à ") Ÿ "FéG ²0[FÜF0G F¹ M*ñ'É (0Ä'gFp v "G" | fFéG æFÿH FÄ Ç e&k &É Ü(Ö&É% *LFÜ z ŸF±F0G FäFøFÜS -FéG FäFøF¹

F.FÄ Ç e&k &É Ü(Ö&É% *LFÄF± ²0[FÜ ")F0FÿH FÄ ¥¹1 &É% FÄFpFÄGAGmGsGYG?GŠGEGuG• V(i,e1 FÄH FÄG2G*GTG*GEGd ¥¹1 FÄ IG FÄ *¥1 Ü †"H GWG2GR1 1 H p 11 H 8Q 11 H FÄFp š ŸFÜG G Ÿ "FçF¹ "G" | °FéG FäFøFÜF±FÝG F¹

H @>F.% †1 ÜS Ü'¼FÜG G FÄ,e1 jGcG1GŠGyGwGxCGGŠGOFÄ jFÿ±± Ü±±"FÜG G FÄ8G*GwG2G*±,e1 †"±>ôG%>ô>ôG%>ô>ô>ôFÄFp š ŸFÜG G Ÿ "FçF¹ "G" | FÄGAGmG G FäFøFÜF±FÝG F¹

F.¥¹1 ±± è 0è9,FÜG "G" | D ØG F0G F¹0ð(yF0F0F0F0FÿH Ü#0)0iF00*3UFp M8ô M*ñFp,e1 F06FéG 8o IG FÄ ¥¹1 ±± è 0è9,¼FÜG G "G" | Fp v ...FÖF0F0F0F0F1 g!FéG FäFøF¹

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G% FÄ M&ÉF06FéG S6Üx 180FÄFpF0FñH FÄ*# . Ü 9,>IFÄH FÄ#Ö* @ Ü 9,>IFÄH FÄ ... Ü 9,>IFÄ IG FÄ Ì Ü 9,>IFÄ

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5 5 1

59 (16)	4 (0)	4 (2)	3 (1)	2 (0)	2 (1)	43 (12)	0 (0)	1 (0)

4

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	Si	
	Aging	
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	<i>p</i> -NA[CuCl ₄]	
	-	
	Na(dibenzo[18]crown-6)[Ni(dmit) ₂](CH ₃ CN) ₂	
	Al ³	
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