Screening and engineering of colour centres in diamond

Luehmann, Tobias

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A&3B >? ?8? 9 -? 9]?8 S ? (L L?
? - ? ? > \$2\$#\$ C)\$\$/E
A&/B ? - ' 9 7? ( ]? >?' ? - *]?8 S
- EE aaaaC)\$ 3E
A%\$B L?O ?] ? 1 (? ,? ? +?8 7?8?; +? ,? ?] ,?]? ((?
7?7?+< (" + ?
? ? > \$3)% &C)\$)E

A% B +? ; ? "#
1- 7 (?- ?8 ?' ##C)\$ #E?
A%)B 1?L ;?8 9 ?= (9 1?O9 "
633'7"]? ?7f+ ? ?\$> 5 3/C)\$ \$2E
A%&B 8? +? ; ? ? .? , 9 +? ?] ( ]? ,
]? \$. 6'33 7
+ ? ? ? >> /) \$/C)\$)E
A%&B -? 8 / # * * C //E?
A%#B ,? ,? , (-? 6? - 8? -? L
" + ? ? ?+/ /%C //E
A%5B]? ? > (-? ' ? . (+ F + (C /3/E
A%2B ' ? 1 * 1 " - ? . ? 7
"5) C //5E
A%3B ;? . ? 7 -? >? 9]? ? ? ((1
? - ? + 2C /3)E
A%/B]? \$?] (?8 / " ? - ? 45 \$%)\$
C)\$ %E
A#\$B O? ?8 ? : L?8 \$,?8_ ? ?8 ' ?
]? 8 \$?L ?] 9 , ? - ? 5" \$&#)\$)C)\$ 5E
A# B 8? 1 " #
- ? . ? 7 "> 32C //E
A#)B -? ?-]?8 \$ 8?8 9 (? ?+?' ,? ?7 + "
* 7 (?- ?8 ?+> 5\$C)\$ #E
A#&B 8? ?+ 7?]?; 1 & O O
. C /3/E
A%#B 7? >? #
? - ? \$ /%#3C //E
A##B L? + * L? -? ?+ * 9 , " 2
" " ? - ? +' /#)%C)\$ \$)E
A#5B L? ?- * 7? (#
. "8 * ? ?8 ? ?- ? " %C //2E
A#2B ,? +? 8 ?+? 8 ?L (L?O 7?7?+< (+? ,? 9]
"#
& ? +)%#\$C)\$ 5E
A#3B]? K - 8)\$ \$3 FNN (?)C)\$ \$3E
A#/B ;?= ((;? (L?> * ?O 8? ?8 9 (7?]? ;< ?
? ?8 ' ;? ; \$?L (?7 1?]?1]?> ;?O (?
]? 9]? & "
? - ? 44 \$2#)\$ \$5C)\$ &E
A5\$B ? ? ?] 9]?>]?8 \$ 1 "
<]? ? \$5#\$ 2C)\$ \$E?
A5 B 7?' 8 ?H -?8 ? ? ;? 8?6 .?6
?O " & +-
" " ? - ? 44 ##)\$ C)\$ &E?
A5)B]? .? + (C //)E
A5&B]? >? ;?]? 7 ?]? ,]?8?1]? .?). "
" 7 (?- ?8 ?4 3%2
C ///E
A5%B +? ;? , ?]? > ' ? ? > 1?L % #
7 (?- ?8 ? &5C //E

A5#B +? (? ? * ? 6?] @]? ? -]? 8 \$ +? 8?
K " # "
+ ? ? ?55)# \$5 C)\$ E
A55B ? 8 # " ?
?+)//C)\$)E
A52B ? -? L +?]? 8 \$? 7? - ?] 9]?
> + ? ?
?5' 3 \$/C)\$\$/E
A53B ?+? 7 * 6?' ?6 +? 8?K 1 1; (C)\$ &E
A5/B ?]? 8 \$. " * - , -
(; . 8 9' 9 /23 /#& # \$5&% \$C)\$)E
A2\$B ? ? #
+ ? ? ?5+ 5& \$3 C)\$ \$E
A2 B ? b O 7?+ =? > ? (?+? 8 (;? 1' " (
+? @ +? 7 9]? >
? , ((?4 #%%\$/C)\$ 5E
A2)B 7? + (# " # + ? ?
? >\$ \$) \$# C)\$ %E
A2&B 8? 9 ? - +? ; ? -?]]? + +? ' @ 6?] @]? ? -
] ? 8 \$? * + -
1- # ? ? ?+ ")#/%C)\$ 5E
A2%B ?+ +? ;? ,]? 1 9 "
1- 7 (? - ? 8 ? /))3 C //3E
A2#B -?]]? ? ' 1? 7? >? (
/" 7 (? - ? 8 ? ' " &# C)\$ #E
A25B 1? L 1? > * ? = (9 1? O9 + " 633'7"
7 (? - ? 8 ? ' # %3 C)\$ \$5E
A22B -? ? +? L ? ? , ? 8? 8]? ( ]?]? ? ?]? * , ? ?
1 8? .? < 1? L? 7 7?]? ; < 1 "]? ?F , ? 8 ? '
)2#3\$ C)\$ &E
A23B .? ;? 1 < ? 8 ? - . "
2 < 7 (? + * ? / 5& C)\$ \$2E
A2/B +? ;?]? L ? ? 8 ' , ? ' * L? ' ? ; (S 1 +? 7?
' +? 1 (-? ' ? ? < "#
+ ? ? ? >> \$2 /\$) C)\$)E
A3\$B ? K? 8]? .? ? 1? , ? ? 7 -? 7? 8]? ? ? .?
1 7? ? - * 7 (? - ? 8 ?
4 5 C //E
A3 B]? S ? . " #
? , (? , (? ? " # C)\$ E
A3 *B]? , ? + ? , ? 8 , ?] (? 1 *9]? S]? ,
" , 1-
? ? + "/\$ &)#% C)\$ \$E
A3)B ;? ? K (? 1 -? ? ? -]? +? 7 9
] ? > #
+ ? ? ? >))% \$ C)\$)E
A3&B ? >? 1]? > (* 2
" " O ? ? 5 23\$ C //E?
A3%B +? , 8 #]? ? , ? 8 ? \$ &2%& C)\$ \$)E
A3#B 8?]? - 8? M? K " "
6 ,7 ? 8 " 2/& C)\$ \$5E

A35B .? ' ? 1? -? O? > < ? O]? ? 8? >?
7]? < 1? ? 1
" " 5%) C)\$\$5E
A32B L? ' ?- ? 7 * 8? 9 ? +?;]? + 6?] @
]? ? - +? 8? K]? 8 S ? # ? ? ? +))53

C)\$ %E
A33B =? 7 ? # +- " ? - ? 5"
\$3)\$&C-E C)\$ 5E
A3/B ? - (" # " #
? - ? 4 #%%/ C)\$ \$E
A/\$B 8? 6? 1 (1 "#
? - ? 4" \$3 &\$%C-E C)\$ E
A/ B ? =? , .? 1? 1 # "#
+ ? ? ? >" \$5&C)\$ &E
A/)B ,? O 9 ( ]? ?]? 8 S ;? 7 (-?]? (? ?
] 9
+ ? ? ? >" /& 3 C)\$ &E
A/&B M? 7? , ,? ? K ? >? ' , '
"# + ? ? ? >" \$ &) C)\$ &E
A/%B 8? 6? 1 (/ "#
? \$)&#/ C)\$ %E
A/#B 8? (;? 8 9 ;? < 9 L?; 1? L ? 8 ? = (9 8? 1
1 " # " " 0 + ?
? . ? \$&&\$%C)\$ 3E
A/5B ? + (' ? > ? (?] 9]? > " "
"
<]? ? ' \$ &\$5% C)\$ &E
A/2B ? O O9 ? L? , 8? -? =? ; ? +? 8 L? '
]? 8 S ,? 7 # #
? - ? 4+ \$3 %\$5C-E C)\$)E
A/3B ' ? * ((9
? 8 ? 4 &3&C)\$\$/E
A//B +? 7 !]? -? 8 8? 9]? ? - 6?] @ . "
+- '1 ? - ? 4' &% \$2 C)\$)E
A \$ \$B ?; 8 1 ;? O 7? , 8? (+?;]? +
, ?' < 7 ? \$ #25 C)\$ %E
A \$ B .? - < L? =? 1 ? .? ,? . ? >? 1 #
? ? " %% C)\$\$/E
A \$)B +? +? ' " " 8 ? (4"
) / C //)E?
A \$&B 1? 1 ' 8? 7 (8? - ,? -
]? + ? ? 4)#55 C //2E
A \$&*B]? S < ((?]? @ -?] - "
A \$%B]? ?' ? -? 8?]? - ?]? @ -?] - "
? - ? / \$&#) % C)\$ \$ #E