

$$6 * \& *. \# 78 * + , 2 . - ! " \# . \# / 0 \; : E ;$$

$$\prime\left(\right))^{*+,-!} \# . \# / 0 \; H Q$$

$$H^{\alpha}_{\beta}(\mathbb{R}^n)$$

$$< I^{\prime \prime} J^* \,\, R$$

$$| \psi_{\rm final} \rangle = | \psi_{\rm initial} \rangle$$

$$? * + \# 8 * - ! " \# . \# / 0 - 2 + N - < \& \# . (, \# + \; S$$

$$I\,ITK\text{-}TA<\;9E$$

$$| \psi_{\rm final} \rangle = | \psi_{\rm initial} \rangle$$

$$O++(2.-\$* \& " * 4 . \# J - ? * + \# 8 " = 5 - 2 + N - \\ U(82+-?*+*, " = 5 \; 9Q$$

$$6 * \& *. \# 78 * +,-V'28W)"N/*\!-\\ <+/ .2+N\!Y\; 9:H$$

<#6 *# R

<#6 *# :

FD9
6 *#. #78 *+,2.-! "#./0

6 *#. #78 *+,2.-! "#./0 FQ9

? *+*5-2+N-<#. (,"#+ HHH
6 *#. #78 *+, -

I)#=**N"+/5-#J-,3*-A2, "#+2.-O=2N*80-#J-K="*+=*5-#J-,3*-P+", *N-K,2,*5-#J-O8*)=2
9E;-K(77.-9

6 *&*.#78*+,2.-!"#.#/0

'#.N-K7)"+/-U2)W#)-1)#,#=#.5 HEE;

O++(2.-\$*&**4.#J-'*..-
2+N-6 *&*.#78*+,2.-!"#.#/0

6 *&*.#78*+,2.-!"#.#/0 HSR

$$!~\#<55205_J-A~*45\cdot2+N\cdot\$~*~*45\cdot~+~\\>\#\ast=(.2)\mathbb{X}~'~\ast..(.2)\cdot2+N\cdot6~*\&*.#78~*+,2.-!~\#\#/\mathit{0}~\mathit{HR}$$

$$O++(2\cdot\$\ast\&*4\cdot\#J\cdot<+,\#8\#\#/\mathit{0}~:D$$

$$A2,()^*:9R$$

$$6~*\&*.#78~*_{+,-}~?~*_{+}*5\cdot2+N\cdot<\&#.(~,"#+~H9H$$

$$?~*+\#8~*-.!"\#\#/\mathit{0}~F$$

$$6~*\&*.#78~*_{+,-}\\V~'28W)"N/*\mathbb{X}\cdot<+/.2+N\mathbb{Y}~9H;$$

$$6~*\&*.#78~*_{+},~9H;$$

$$O++(2\cdot\$\ast\&*4\cdot\#J\cdot?~*_{+}*,"=5~FR$$

$$6~*\&*.#78~*_{+,-}V~'28W)"N/*\mathbb{X}\cdot<+/.2+N\mathbb{Y}~9HS$$

$$6~*\&*.#78~*_{+,-}V~'28W)"N/*\mathbb{X}\cdot<+/.2+N\mathbb{Y}~9HS$$

$$\mathcal{E}_\mathrm{d}$$

6"2W, *5*

`)*+N5-."+-

? *+*, "=5J-`Z? 9F

6 *&*.#78 *+,-V ' 28W)"N/*Y-
<+/.2+N\ 9H:

A2,()* FSS

O-I2W#)2,#)0- ? ("N*-,#-\$AO

' ())*+,-T7"+ "#+-"+- ? *+*, "=5-B-6 *&*.#78 *+, Q

*I)#=**N"+/5.#J-,3*-A2,"#+2.-O=2N*80.#J-
K="*+=*5.#J-,3*-P+",*N-K,2,*5.#J-O 8 *)"=2 ;9*

\ 3-Z+,*)+2,"#+2.-@#()+2.-#J-6 *&*.#78*+,2.-!"#.#/0 FS*

A()#+ 9F*

*6 *&*.#78*+, -V '28W)"N/*\<+.2+N\&K(77.*8*+,*

`3*-@#()+2.-#J-A*()#5="*+=*J- `3*-TJJ="2.-@#()+2.-#J-,3*-K#=/*,0-J#)-
A*()#5="*+=* D