

8fc[YbY]bZ`i gg`\]bhYf`XYa `GhYi Yf. HfU[]gW\Yf`I bZU```]b`F\Y]bdZU`n°

?c``]g]cb'j cb'nk Y]'?`Y]bVi ggYb']b'F\Y]bdZU`n.'' \$!À\f][Yfi bhYf'8fc[YbY]bZi ggž'c\bY': U\fYf`Ui Vb]g"'9fa]hh`i b[Yb `Ui ZYb"



6fi Wkk]YgYbghfU»Yž'*,'\$) 'A Ubb\Y]a ž'8Yi hgWk`UbX'!'5a
%%"'5df]`'&\$&) ži a '%*.'\$'I\fž'_Ua 'Yg'Ub'XYf'?fYi ni b[
6fi Wkk]YgYbghfU»Y#B]VY`i b[YbU``YY'ni 'Y]bYa 'XfUa Uh]gWkYb
I bZU``'nk]gWkYb'nkY]'?`Y]bVi ggYb"'9]b''&,!Å\f][Yf': U\fYf'a i gghY
Ub\U`hYbž'U`g'X]Y'5a dY``Ui Z'Fch'gdfUb["'8cWk'XYf''\$!Å\f][Y
\]bhYf']\a 'VYa Yf_hY'X]Yg'ni 'gdÀh'i bX'dfU``hY'Ui Z'XUg': U\fnYi [
XYg'\$\Db[YfYb"'8]Y'K i Wkh'XYf'?c``]g]cb'gWkcV'XYb'?`Y]bVi g'XYg
&,!\$\A\f][Yb'gc[Uf'Ui Z'Y]b'k UfhYbXYg': U\fgWki `Ui hc"
; `\DW_`]WkYfk Y]gY'V`]YV'Yg'VY]'GUWkgWk\AXYb' 'X]Y'VY]XYb
?`Y]bVi ggY'k UfYb'YXcWk'b]Wkh'a Y\f'ZU\fVYfY]h'i bX'a i gghYb
UV[YgWk`Yddh'kYfXYb"

8]Y G]hi Uh]cb Yg_U`]YfhY ZØf XYb '' $\frac{1}{2}$ Yb I bZU``j Yfi fgUWX Yfž

 $\label{thm:linear_continuity} $$ U`g`X]Y`Dc`]nY]`Xfc[Ybhmd]gWXY`Gma dhca Y`ZYghghY``hY"`9]b`I f]bhYgh nY][hY`Y]b`dcg]h]j Yg`9f[YVb]g`Ui Z`H<7ž`i bX`Yf`\UhhY`ni XYa '_Y]bY [Ø`h][Y`: U\fYf`Ui Vb]g"'; Y[Yb']\b'k]fX`Yhnh`k Y[Yb'; YZÀ\fXi b[XYg`GhfU»Ybj Yf_Y\fg`gck]Y`: U\fYbg`c\bY`: U\fYf`Ui Vb]g Yfa]hhY`h"`\alpha a '_\ObbhY`Y]bY`: fY]\Y]hgghfUZY`j cb`V]g`ni 'ZØbZ`\J\fYb cXYf`Y]bY`; Y`XghfUZY`Xfc\Yb"$

8 Y hU]`g	
J c f ZU``	JYf_Y\fgi bZU``ž'8fc[Yb_f]a]bU`]hÀh
I fgUWX Y	8fc[YbY]bZi ggž: U\fYb c\bY : U\fYf`Ui Vb]g
Cfh	6fi Wkk]YgYbghfU»Yž*,'\$) A Ubb\Y]a ž
	8 Yi hgWX`UbX

6Ygi WXYb G]Y i bg Ui Z b!U["XY