

Mind Control

T\Y%+SgHJ gmf]g|HAYQI A]!
]cb'8c''fA UbCZUf fXUb Ugfcl
bU hgg VUXm]b1 fX]b'Ub UWV
XfbhUhg f] YcbgWf 'XgJ Y\lg']Z'cb'm
Vni]fYi]X]b[CE]a "H YWUUMf'k Ug
fYdUfYXk]h'a UW]bY'] YWa dcbYblg
Xi f]b['Ub Y dYbgj Yf dY]a YbU'g f] Yfm
h.Ui'Za\ja k]h'g dY'i a Ub'ck Yfg'
Gci bX'] Yg]WbW, M]cb3A UfVY(S'
nUfgU'c"



]H YF\UgUk UhgVYb UXf]j Y
lc Wa Yi d'k]h UWa di hf'h.Uk]''
Ya i 'Uy'h Yga Ufhg]b]m]b'h.Y
i b]j Yfg'K \Ug'h Yga Ufhg]b]m]b'
h.Yi b]j Yfg'3H YVfU]b"K YfYU'Udc]b]h
k\YfYh.U]gdcgg]V'X]g]X'8f" A U Xni
6Umi a]z' YU'cZ'h Y8 YdUfa YbhcZ
9 YW]W' UbX'7ca di hf'9b]]bYf]b]"

6Umi a]]g'YU]b[U]fci d'cZ
researchers at the University of Louisiana
UicZiMhY'k\c'fYX]Ycd]b['UMfU]b'

W]d]b'h.YI b]j Yfg]m]g'bH']]Yb]7mYd\ng]W'@U'='hikci 'X
YbU'YUdYfgcb'lc a cj YUb Ufh, WU']a Vj]U]hci [\h'5'ga U''
W]d]b'h.YVfU]b', U'ci hcbY]bW'gei fY., 'kci 'X'Yh'ga YcbY
k]h Udfcgh Y]W]a Va cj Y]h]g]Z]h]k YfY'fYg' UbX'VcbY'

<ck 3H'fci [\ VU]b]W'a di hf']b]h'Z'W'Z'cf'67-z
hWbc'c[ri5g'h YbL'a Y]a d']g'z'VU]b]W'a di hf']b]h'Z'W'
Yg]U]g]g'U']b_ Vh'k Yb'UMfU]b']k]fYX'k]h U'Wa di hf' W]d'z'
Z'f']b]g]U'W'z'UbX'U'X]j]W'h.Uh'Yb'U'Y'g'VU]b'g]]bUg]lc X]fY'W'
Y] hf]bU'U]m]]h]g' W'U'ga cj]b['Ub Ufh, WU']a V'

]h'g'VU]g'W'm]b]m]fU]b['UMfU]b'k]h U'ng]h'a zlc VYU'Ylc'
fYU'k'h YVfU]b'cf'fYU'k' \Ug' h'YVfU]b'Z'U'fai a]Y]d'U]bYX'
G]bg'f]g]b]g]X]h Ya]M'cW]d'z'k \]W'kci 'XVY'g' f]]W' m
]a d'Ub]X]b'h YVfU]b'z'kci 'XX]W]M]c'c[]W' d'f'c'V'g'g'h U'i
W]b]j Yf]h'ci [\]b]lc U]m]c"6U]b'g]]bUg'kci 'XVY]fU]g']h]X'
lc Ug]W]b'X'W]d]b' Udfcgh Y]W]fa 'Vnk U'nc'ZU'fU]c'Z'Yei Yb]W'h
g]]bU''H'Y]]f]i U'W]b]b'Y'kci 'X'Yb'U'Y'VfU]b']a di 'g'g]lc'
dfca dh'd\ng]W' a cj Ya Yb]h'

]h'g'ci bX'g'] YZ]b]h]g]m] h'g' X]X'h Yga Ufh'd'cbY' B'ch] Yfm
a U'nd'Y'cd'Y'Y]j]gcb'X'U'k]fY'g'g'X]j]W'h.Ukci 'X'Yh'ni 'HU'_
lc U'br]b]Z'U'bnk \Yf]]b'h'Y'k'cf'X]E]U'ni a]'g]X'

I b]j Yfg]m]g]W]b]h]g]g]fYX]Y' Ycd]b['Ug]W]b'X'a]M'cW]d'

F :Za E Sa a a ;N E Sa a a a ;a a
D . Ma Ba , a a D a E a a C E

h.Ukci 'X']j Yd'Y'cd'Y'g' Yf]b['Zca 'Yd]'Yd'g]n]U'k'U]b]b['h.UhU
g]m]ri fY]g]a a]b]b]h'

H'YW]d'kci 'XVY'd'U'W]X]b]g]X]Y'U'ga Ufh'd'cbY'cf'
k]f]g]k U'W]] YX]j]W]U'X'g]b]W'fcb]n]X'k]h' g]b]g'f]g'Ya V'XXX'
]b' \YU] Yf'g]a]'U'f'lc Ug]k]a a Yfg]W]h'Y'Y'W]d'kci 'X'
k]fY'Y'g]m]d'fYX]W]d] 'Yd]]W]g]m]ri fY'g'V'm'a cb]]f]b['VU]b'g]]bUg'
k]h' '99; z'k \]W'g]U'X'g'Z'f'Y'W]f'c'Y'b]W]d'U'c' f]U'd'ri5b'U'Y'f]i
kci 'XVY'X]j Y'X]]b'U'X]]b'W'c'ZU'g]m]ri fY'

H'W]b'c'c[ri5g'h YbL'a Y]a d']g'z'VU]b]W'a di hf']b]h'Z'W'
U'fY'U'X]m]]g]g'='h'cb'm]d'f'c]j X]g]k'U]b]b['U'ci h]Y]]h'g]W]b'X'g'
V'Z'f'Y'U'X]h'ci [\ "6U'ni a]'g]X]i b]j Yfg]m]f]g]U'f]W]f]g]fY'
\cd]b['lc' d'f'c'X] W'U]W]d'h.Ukci 'X']j YU'd'Y'f'g]b'U'a d'Y'cb]]W'
V'Z'f'Y'U'g]m]ri fY'g]f]]g'

]G]Y]U' n]h'U]b'X'X'c[g]W]b' d'fYX]W]U'g]m]ri fY'U'ci h]%'
a]bi h'g]V'Z'f'Y]h' U'd'Y'g'z'U'X'h'U]h]g]ci f']cU''K'Y'k'U'bh]c'
d'f'c'X] W'U]W]d'h.Uh'W]b'W'a d'Y'h'k]h' U'X'c[]z'k \]W'kci 'XVYU'
a i W'a c'fY'd'U'f]W]W'k'U'nc' X]Y]j Y'U'k'U]b]b]]Z'B'Y]i d'U]b'YX'

5 d'Y'f'g'b'g' Yf]b['Zca 'Yd]'Yd'g]n]U'k'U]b]b['h.UhU
Z'f'a YX]W' \Yd'c'f'lc'g'cd' \]g] Y]W]Y'lc' fY]i W'W]U'W'g'c'ZU'
g]m]ri fY]]b]X]i W'X]U'W]X]b]z'g]X]B]Y' m'9'Q]i]X]Z'U] f]U'X] U'Y'g]i X]b]h'
k'cf_]b['cb'h'Y'd'f'c'W'5'Y'h'X]j]W]g]W'i 'X'U'g' V'Y'k'cf'b'V'riU'



U v a a v a , a
fYU]j YZ]Y]b'X'cf' W'F]U'Y'k' \c' W'i 'X'U'g]g]h'U'd'Y'f'g'b'g' Yf]b['Zca'
Yd]'Yd'g]n]U'k'U]b]b['h.UhU g]m]ri fY]g]a a]b]b]h'

9'Q]i]X]Z'U] f]U'X] U'Y'g]i X]b]h' U'X'c[]z'k \]W'kci 'XVYU'
Yb]]b]Y]f]b[]z'g]X]h'Y'h'W]b'c'c[]n]k'ci 'X'V'Y'U'X] U'bh]]c]i g'Z'f' d'Y'cd'Y'
k' \c' U'f'Yi b'U'Y'lc' W'a a i b]]W]Y]]b'h'Y'Y']b'h'c'ZU'g]m]ri fY]z'g' W'U'g'
]]b'Z]b]g'c'f' d'Y'cd'Y']b' U'W'a U'k' \c' W'bh]i'Y' d'U]b'k' \U'g' \U'd'Y'b]b[]

]H'Y'g]m]h'a 'W'i 'X'V'Y'd'f'c[f]U'a Y'X'lc' W' 'U'c]g]]U'Z'U'X' \U'Y'
; D'G'g' U'b'U'a V' 'U'W'W'i 'X'W'a Y'lc' h'Y'c'W]h'c'c'ZU'd'Y'f'g'b']b'
X]b]]Y''='h'W'i 'X'g]j Y']j Y'g'c'

6U'ni a]]g'YU]b[U]fci d'cZ
h.Ukci 'X']j Yd'Y'cd'Y'g' Yf]b['Zca 'Yd]'Yd'g]n]U'k'U]b]b['h.UhU
g]m]ri fY]g]a a]b]b]h'

6ch' d'f'c'W'g'U'Y'g' d'c'f'f'X'k]h' [f]U'bg]U'k'U'f'X'X'V'ri'h'Y'
B'U]h'c]b'U'G]M]W'W': ci b'X]h'c]b'U'X]i 'G'8'Y'd'U'fa Y'bh'c'Z'9'b]f]m'
H'Y]]X]U'c]Z'f]Y'U]b]]a]b'X'g]U'X'h'ci [\H'W]b]f'c' 'Y'X'a c]j Y'a Y'bh'
\U'g' ba " " !]]b]g'c'Z'k \U'hc'XU']g'
W'Y'X'V'U]b]W'a di hf']b]h'
U]m]]h'ni g]b['99; "

5b'99; h'g]W]b'U'g]g]h]b'h'Y'X]U]]b'c]g]g'c'ZU'f]U]b]]c'Z'W]b'X]h'c]b'g'
fY'U'X]lc' h'Y'V'f]U]b]z]]b'W']b]b['Yd]'Yd]h]W]g]m]ri fY]z'g'W]b'W'g]g]c]b'g'U'X'
h'a c'f]g' 'H'Y'h]g]z' \c]k'Y']z']b]j c]j Y'g'd'U'W'a Y'bh'c'Z'Y'W]f'c'X]g'c'b'
h'Y'g]W]d'z'k]h' fY'g']g]h'U'g]Z'f]Y'X'V'ri'k'U'nc'ZU'W]b]X]i W'f]lc' W'g]m]ri
U'X'W'a d'Y']ei]da Y'bh'G'W'99;]g]g]W]b'c]b]m]X'W]b]X'W]b]b'='Q]i'9'c' '@'5'@'i' -G'5'B'9'
\c]g]]U'g]c'f' \U'g'V'm'a Y'X]W' d'f'c'Z'g]c]b'U'g'

-h'Y'W]g]Y'c'Z'h'ci [\H'W]b]f'c' 'Y'X'a c]j Y'a Y'bh]z'U]m]] 'YU'd'Z'f'k'U'f'
c'W]f]Y'X]]b'h'Y%+S'g'k \]b'f]g]U'f]W]f]g'U'ih'Y]i b]j Y'f]g]m]c'Z'
7U]]Z'f]b]]z'c]g]5b]]Y'g]k'Y'f]U'Y'lc' W'bh'c' 'U'W'a di hf' W'f]g'f'V'm'
i g]b['99;]g]]b'U'g'Z'ca h'Y'V'U]b]"

A c'fY'f'W]b]h'z'g]m]h]g]g]U'X'b]i'f'c]g']f'Y'c]b]g' \U'Y'X]a c]b]g]f]U'X'
h'U'f]d'f'c]g]h'Y]W]a]g]W]b'Y'a U]]di 'U'X]]b'U'U'g]h]]b] "B'Y]j Y'g]]b'
U'lc'f'g'z'Z'f'Y]]a d'Y'Z'U'f]g' f]]W' m'f]Y'd'f'c[f]U'a Y'X]lc' X]f]Y'W]b]i'f]U'

W'a a UbX'g]lc' Udfcgh Y]W]a V'

A U'br]i'W'U']b]]g'f'Y'a U]b]"A i W'c'Z'lc'X]h]g]Y]]g]]b]]h'W]b'c'c[]m]i'
]b]W']X]b]]h'W]b'c'c[]n]h'U'h'U'g]V'Y'b'U'd'f'c]j Y'X'V'ri'h'Y]i "G": cc'X'U'X'
8'f]i ['5'X'a]b]]g]f]U]h'c]b',]g]Y]h'Y'f'X]b]]f'c]i g'c'f']b]W]b]j Y]b]]b]h'Z'f']g'
V'ri'h'Y]U'Y'f]U'Y'd'Y'f'g'c'b"7'c]g]]g]U'c]h'Y'f'X'U'k'U'W]U'5' d'f'c]g]h'Y]W]a V'
W]d'U'Y'c'Z'g]i f]f]]b]]']a]h'X]h'ci [\H'W]b]f'c' 'Y'X'a c]j Y'a Y'bh]z'g' W'U'g'
c]b]Y'X]j Y'cd'Y'X]]b' 'U'W]h]g]U'c' \c'bg' <cd_]b]g]]b]j Y'f]g]m]c'ci 'X'W]g]i
U'ci h' ") SSSSS"

6U]b]g' f]]f]m]c']a d'U'bh]W]d]g]U'X'Y'W]f'c'X]g]]g]f]g']h'f]Y'g]U'f]W'c]b'
k]f]Y'Y'g]67='g]g]h'a g]g]Y'a V'm]b]]W]b'X'g' V'W]m]c' \i' f'X'Y'g]g' W'U'g]c]b]g'
]b]h'Z'f]Y'W]U'X'U'W]U'W]U'X]U'g]Y'X'U'X'g'c'f]U'Y']a]h]h'c]b]g'
]b'h'Y'W]g]Y'c'ZU]W]d]lc' X]h'W]m]d]]Y'd'g]n]k'Y' \U'Y'c]b]Y'h'U'i
k'c'f'g]V'i h'k'Y'U'f]Y'W]b]g]U'bh]m]a d'f'c]]b]]h'f]] \h'bc'k'z'k'Y'U'f]f]m]b]]'
lc']a d'f'c] Y'U'W]f]U'W]h'ci f'g]g]h'a]g]]cc'X'Z'V' h'g'ca Y]h'a Y'g]]h'f]Y'X]W]g]U'
g]m]ri fY]k]' \U'd'Y'z'U'X'X'c'Y'g]b]f]i' h' \U'g]lc' V'Y%'SS' d'Y'f'W]b]h'Z'f' d'Y'cd'Y'
lc' i g]Y]h'Z'9'Q]i]X]Z'U]X'

I @U'Z]i]M]h]Y'f]Y'g]U'f]W]f]g' \U'Y'V'Y'b'k'c'f_]b]]lc' W'a d'Y'h'
d'f'c]lc'hd]g]U'X'Z'U]W]h'Y'a c'X]Y'g'c'Z'U'W'c'Z'h'Y'k'c' W'U'g]U]h]W'U'g]6'f]]f'a'
h'U'h'U'd'Y'g]z'6U'ni a]'g]X]h'Y'd'U']g]lc' d'U'f]h'Y'f'k]h' U'a Y'X]W'
g'W'cc' 'cf'U'd]f]j U'Y'Y'bh]]m]c' W'b]X]i W]h]f]U]g]U'X]Y' d'c'f]Y'h'Y'
d'ch]h]]U'Z'f' W'a a Y'V]U]]h]h'c]b]"

5g]h'Y'h'W]b'c'c[]m]W]b]h]i Y'g]lc' Y'c]j Y'z'h'Y'd'c]g]m]]h]Y'g'Z'f'
a Y'X]W]h' U F F Q 7

9'c' '@'5'@'i' -G'5'B'9'

8CT: 8I: 5G