# **Fiction**

# **Faded Into Blue**

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\$3&"3&'4"26:3\$"6\*"\$3&"3'62(."\$3&"/&'24."\$3&"+)\*:%)1&2'\$&"
(3)0%4&2.", &2&"\$3&"3'62(."\$3&"/&'24."\$3&"+)\*:%)1&2'\$&"
)A"&0\$2)836&4"10+-"\$'\*:%A4"6\*"'\*"6\*\$&2, );&\*"'&'%1&(("
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 $<-\&\$+2'\$\%'5++4'; +\$\$+..'5\%.'-'\&''/7\$F'=\%: '<-&\$+2'\$\%'5\%./+\$F' \\ 5V][U]`ÛUb\Yginai Uga]`Yk]h`[`cgpYX'cjYf`]dgžVi hi nai WdobchhY``k\]VV'fYÛYM]cb]ginai fgžUbX'nai f`]hhY' \\ 3''3\$+.D3'4+/3'/.%<'-&\%$7+.'''&#7'-&2'7+.'+=+3'; +#%8+' \\ +81\$=?'3\%'=\%:'; +/''&'$\%'<\%..='$7-$'$7+'\#+-&3'<''44'&\%$' \\ .+\$:.&?'7+.'7-''.'<''44'.+8-''&'4\%&?''-&2'7+.'3#-.3'<''44'&\%$' \\ 5-2+'; +#-:3+'=\%: 'C&\%<'-44'$\%\'<+44'$7+'<+''/7$'\%5'3''4+&#+F' \\ $7+&'8\%8'#-443'\%: $?'IJ4+&-?'-.+'=\%:'.+-2=KL$ 

M+5%.+'=%: '#-&'.+31%&2?'>; "/-"4'=+443?'I9+3?' #%8"&/?L'-&2'.:&3'2%<&'\$7+'3\$-".3?'4+-H"&/'=%: '5-#+6\$%6 ZUV'k]h \Yf`fYÛYM]cb'' H\fYY\ci fg'LbX'ÚZhYYb'a ]bi HYgi bH]`=La \ca Y'' /O1' 2342O&#5&+()#+' 26#7#, 8#9+226' : #&' #, #; -, <=#)+62# ,' >#>(6?6' : #2&#@5+(<5#&A#B(, <1#&AA#&A#C1>; ,' =#C&, >D# /O1' 234A&+(#5&+()#+' 26-#7#, 8#<, ((36' : #251#<, )=12#>&O' # 251#(&' 2#)219)#&A#251#<5+(<5D

E' #(, ': 1#6: 52#; -6' =) #' #(&' 2#&#81D#FG, >61)# ,' >#: 1' 2-181' #O51' #D51' #D1, 2#; 1-2#)6: ' #--+86', 21) #d'YUY ZUDY D'nci f'GYUNYYH' = bGYfhh Y'a YHU ÚH]b[g &' 1#' 2&#251#251(#, ' >#6: 521' #; 3#9+--6' : #' #51#&&)1# 1' >#&#251#201(#, ' >#6: 521' #; 3#9+--6' : #' #51#&&)1# 1' >#&#251#20, 9D#/&#(1-1, )1#3&+(#)1, 2#; 1-2#642#51#+991(#9&(26&' #A#251#; +<=-1D#I 1#, )=#5, 2#3&+#=119#nci f'GYUNYY'hZUDYDYX1Afci [\ci hh\YÛ][\hZUGK Y'a Um YI dYf]YbVY'h fVi YbVY'I' H\YÛ][\hUHYDXUDhQgcZH )9&=1' #?&6<1#)-&O-3#6' : )#81#2&#-119#, )#51#&(, ' : 1#)1, 2#; 1-2#)6: ' #, ; &?1#3#51, >#; 1: 6' )#2&#; -+(D##<-&)1#3#131)HVi hU`=VMD'GYY']gÚYfm\Uff'

#### JJJ

; c`XYbYnYgLbXWLFLaY`\U]f"G\YgLhWl7cggiNYÚfY 962#)O,36': #&#251#8+)6<##9(&>+<1>#0625#,#96<=#,'># &->#: +62,(D#7'#,#K+612#?&6<1H#)51#),':#,-&':#&#L,?6># I 6-<&MN)#FO31#&A#251#%+((6<,'1HP#,'>#51(#131)#O1(1# [`i YX1c1NYÛLaYgNUhgrcXVYhkYYbig'5g=d'UhYX`

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kYkci`X\UJYWYYtUhYXcif'ÚZmntgYjYbh\kYXX]b[`

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45#261#0&#/&71#81(1#981' #5#' 11: #, ' #1)/, ; 1<#=&+# 6'&9>#?261#981' #7=#: , : #)&710271)#@,--)#&@@081#9, A&' # ,': #5#:&'B0#6'&9#8&9#0&#1C; -, 2' #0&#7=#)2D-2' A)#98=# :, :: =#8, )#0&#A&#, 9, =#@&(#9116)#, 0#, #0271#981' #81#2)#2' # (18, D3E#F81#7+)0#8, G1#)11'#081#&&6#&' #7=#@, /1#D1/, +)1# )81#2771:2,01-=#@&--&91:#+; #9208<#45#6'&9#H, '21-#0&-: # =&+3#50B)#&6, =3#5B7#'&0#, )8,71:#&@20<#5#1+)0#0(=#0&#82:1# 20#@(&7#7=#=&+'A1(#)2D-2'A)3#J81=B(1#)02--#)&#=&+'A#, ': # 081=#)02--#082' 6#081#D1)0#&@0812(#@,081(3#%1#:1)1(G1)#081# /8, '/1#0&#0(=#, ': #2G1#+; #0&#08,0#&'1#:, =3E

5' #7=#08(11#=1,()#,0#K,(217&'0#%2A8#F/8&&-<#5# 9&':1(1:#8&9#5#8,:'B0#710#81(#)&&'1(3#J81(1#5#9,)<#,# A+=#98&#8,:#'&#2:1,#98,0#9,)#,D&+0#0&#8,;;1'<#=2'A# '1C0#0&#,#A2(-#2'#,'#&-:#98201#0L)82(0#,':#0&('#1,')<# )0,(2'A#,0#081#)6=3

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4Q1,83#F81₽)3#5#(1,--=#&G1#81(<E#5#(1;-=#,)#,#)7,--# <E#5#(1;-=#,)#,#)7,--# +,-..'/012'\$/2'304256'72%892'823: %&; 3<' = "\$/'3%42' ZcfWthYÛ][\hLHYbXLbhg'a cj YthYVVThhc hYbYI hdcX' %>'320\$35'%&.?'; "3\$@8A"&9'0'>2B'3.22: "&9': 0332&9283'%&' \$/2'B0?<'

+C/2283<6'72%892'0&; ','#."&D'%@8': .03\$"#'#@: 3'0&; ' \$0D2'0'3": <'+E%@'30"; '\$/0\$'?%@'.%3\$'\$/"3'9"8.'%>'?%@835'A@\$' ">'?%@'.%12'/28'."D2'?%@'30?'?%@'; %5'40?A2'?%@'/012&-\$' 820..?'.%3\$'/28<6

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+G/0&D35'72%89256','3%.24&.?'82: .?<'F2"&9'#082>@.' &%\$'\$%'3: "..5','\$0D2'0'3": '%>'4?'; 8"&D'0&; ': .0#2'"\$'%&' \$/2': .03\$"#'\$80?'"&'>8%&\$'%>'42<'H".2&\$.?5','B0\$#/'03'\$/2' A@AA.23'3\$@#D'\$%'\$/2'3"; 2'%>'\$/2'#.208': .03\$"#'40D2'\$/2"8' B0?'\$/8%@9/'\$/2'9%.; 2&'."I@"; '0&; '3@8>0#2'>%8'0"8<'

#### JJJ

,\$'B03'0'! 8"; 0?'&"9/\$5'! 2A8@08?'\$B2&\$?K2"9/\$/'\$%'A2' 2L0#\$5'B/2&', '%: 2&2; '\$/2'.2\$\$28<', '420&5', '/0; '9%\$\$2&'\$/2' 240".'\$/2'; 0?'A2>%82'.2\$\$"&9'42'D&%B'\$/0\$', '/0; 'A22&' 0##2: \$2; 5'A@\$'\$/"3'B03'; ">282&\$<',&'4?'/0&; 5', '/2.; '4?' \$"#D2\$'%@\$'%>'C088%..5', %B0<

+M208'C08\$28'N0D"&5

C%&980\$@.0\$"%&30',\$'"3'B"\$/'9820\$': .203@82'\$/0\$',' %>>28'?%@'0; 4"33"%&'\$%'\$/2'P2&&'H\$0\$2'Q&"1283"\$?'#.033' %>'RS)T<6','3: 2; '\$/8%@9/'\$/2'.2\$\$28'3208#/"&9'>%8'0&?' ]bX]VMjcbcZÚbbVJU UXZUbX1\YfY]hk UJÎ Mci ei U]ÚYXZcfci f'8]QMzj YfDYbbGhuh/ÚbUbVJU Uk UFXcZ URV5SSS'%128'>%@8'?2083<'G/282'B"..'A2'0W6'

X.?330'\$/82B'/28'0843'08%@&; '4?'&2#D'0&; 'D"332; ' 4?'#/22D<'F%\$/'%>'4?': 082&\$3'}%"&2; ''&'\$/2'/@9'0&; ' \$/2&'4?'; 0; ': %: : 2; '0'A%\$\$.2'%>'#/04: 09&2<'X.?330' : %@82; '@3'20#/'0'9.033'0&; '9%\$'/2832.>'0'#@: '%>'B0\$28<' = 2'80"32; '%@8'9.03323'%>'A@AA."&9'9%.; 2&'."1@"; '\$%'\$/2' g\_m]b W WfUfU]cb cZh Y dUhZci f m/UfgÚbU`mdUh]b[ %>''&'\$/2'A23\$'B0?': %33"A.2<'P2&&'H\$0\$2'/0; 'A22&'4?' ; 8204'3"&#2'>823/40&'?208'%>'/"9/'3#/%%.5'0&; '0\$'\$/0\$' 4%42&\$5'''\$'A2#042'0'820."\$?<''

X3'\$/2'#2.2A80\$"%&'; "2; '; %B&5'4?': 082&\$3'\$@8&2; '"&'

>%8'\$/2'&"9/\$5'0&; 'X.?330'0&; ', 'B0.D2; 'A0#D'\$%'4?'8%%4<' G/2'2L#"\$242&\$'3\$08\$2; '\$%'B208'%>>'A2#0@32'B2'A%\$/' 820."Z2; '\$/0\$'\$/"3'.2\$\$28'420&\$'B2'/0; '0'A"9'#%&12830\$"%&' "&'%%&\$'%>'@3<'

X>\$28', '#.%32; '\$/2'; %%85'X.?330'B80: : 2; '/28'0843' 08%@&; '4?'&2#D5'.%%D2; '"&'4?'2?235'0&; '30"; 5'+, 'D&%B' B2'&22; '\$%'\$0.D'0A%@\$'\$/"35'A@\$'A2>%82'B2'; %5', '&22; '\$%' \$2..'?%@'\$/0\$', '04'3%'"R "A.?': 8%@; '%>'?%@<6

= 2'30\$'%&'4?'A2; '\$/0\$'&"9/\$'0&; '\$0.D2; '\$/8%@9/' 0..'\$/2': %33"A"."\$"23<'H/2'\$%.; '42'\$/0\$','/0; 'B%8D2; '\$%%' /08; '0\$'\$/"3'%: : %8\$@&"\$?'\$%': 033'"\$'@: '&%B<', '3@9923\$2; ' \$/0\$'X.?330'#%@.; '0: : .?'\$%'P2&&'H\$0\$2'&2L\$'?208'B/2&' \$/2'\$" 42'#042'08%@&; 5'0&; '\$/2&'"\$'B%@.; '%&.?'A2'0'?208' %>'.%&9K; "3\$0&#25'A@\$'3/2'\$%.; '42'\$/0\$'3/2'&22; 2; '\$%' 3\$0?'#.%32'>%8'/28'\$04".?<' [ 28'; 0; '/0; 'B%8D2; '\$%%'/08; ' \$%'3\$0?'3%A28'>%8'/28'\$%'.2012<'N%&9K; "3\$0&#2'B03'0&' %: \$"%&5'A@\$'&2"\$/28'%'@3'D&2B'/%B'B2'B%@.; '0>%8; ' \$/2': .0&2'\$"#D2\$35'0&; 'A?'\$/2'\$" 42'%&2'%>'@3'; 8%12'\$%'\$/2' %\$/28'B2'B%@.; '/012'\$%'\$@8&'08%@&; '0&; '; 8"12'/%42<' D

# A c]bYgZcf h)fhnhÚj YnYUfg'i ?

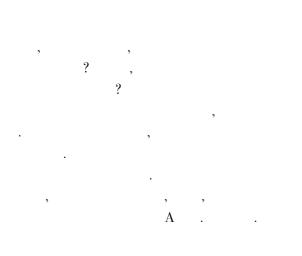
### kci `X'gYfj Y'Zcf'łk YbhnhÚj Y'nYUfg'UbX'UhlhUhdc]bhik Y'

?

cjYX5`napLžVi h=X]XbchÚ[\hZcf\Yf"=kU\_YX

# hc Út Xiha Yhc HJ\_žbc Webglubhnik cffnijb[ 'U/ci hh\Y'

# ]bth.YgLa Ygdchg.Yhcc\_a Yhccbci fUfghXLhY"<Yf



# $\label{eq:linearized_final_states} Y \label{eq:linearized_final_states} Y \label{eq$

k\Lhg\YZY`hVYZcfY'h\YWf`Û]ddYX'hk]Wž`LbX]b[` . B

1:30 h\Ygk]a hYLa UzhyfkYkcbici fUfgha YyhcZh\YgYUgcbi

. A

YžUbX1hX1Úfghh]aYkUghX1cb`mh]aYg\YkUggcVYf" [c]b[žVih]hkUgbchhcc^UfX1rcU[ifYcih/hX1UMJXYbh

? ? Α,

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### k]h h Ya UZhYf = YZh 5hUfgh]hk UgZ bžUbXg\Yk Ug

. A . A

А . Click.

-75. 85, 90, 105.

С С . ?

 $\hat{I} M U = \hat{M} hchU m U b Y \hat{Z} g Y g J X b H Y [[ !d] h W Y U J Z Y f Y b W Z U X = g i ha m Y m Y g h Y U L X U W H Y U c X U M H Y U C X U M H Y U M H Y U C X U M H Y U C X U M H Y H Y U M H$ С

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aU\c[UbmYmYgž]hkUgUg]Z\YkYfYh\YdYfgcb]ÚWd]cb

, cZh\Y`]dž\bX`UÛUhÎ ≠Ĩ¥`fUh\Yf`bch'i ™ci gYYž@i X]j ]W]/

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+",',#-./\$"&0',11213'\$%'41'545&3%&13'5,'5'\$6"&0'%7'\$61' /5,\$8'5,'61'653'1219013'79%2'6",'",%.5\$"%&': "\$6'&%\$6"&0' \$%',6%: '7%9'"\$;'<7'%&1': %-.3'#5\$#6'6"2': 5.="&0'54%-\$' "&'\$%: &'%9'259=1\$/.5#1'5&3'"&>-"91'54%-\$'6",': %9=8'61' : %-.3',\$591'45#=': "\$6'65-&\$138'0.5,,?'1?1,'5&3'2-\$\$19' ,%21\$6"&0'54%-\$'65@"&0'2%91'"2/%9\$5&\$'25\$\$19,'\$%' /-9,-1;''

A%'%&1'>-"\$1'=&1: ': 6191'\$61': %25&'653'#%21' 79%2;'B61': 5?'\$61'''&&=11/19'\$%.3'''\$8', 61'653'=&%#=13' -/%&'\$61'''&&c, '3%%9'.5\$1'%&1'&"06\$'D\$61'&"06\$'417%91' E-3"@"##"'91\$-9&13'\$%', %#"1\$?F'5&3'91>-1, \$13'91, "31&#1;' G5"3'619'&521': 5, 'H"5&5'I..3";'G61'653'/5"3'6"2'  $\LbXgca \Upsilonm2cffcca LbX VcLFX Zfca UĹbY \UpsilonUNYF Vd]b''$  /-9, 1'\$65\$'6-&0'79%2'619': 5", \$;'G61': 5, '5'/5"&\$198'\$6", ' : %25&8': 6%': ", 613'\$%': %9='-&3", \$-9413': "\$6"&'\$61'

J'B61'''&&=11/19'412%5&13'\$%'6", ': "71'5&3' 35-06\$19, '5, '\$61?8'35K13'5&3'91#1&\$.?'9%-,13'79%2' ,.11/8',\$-24.13'\$%'/91/591'5'9%%2;'

 $G\%\&'1\&\%-068'\&61'\%:\&'7\%90\%'\&61'9'75, #"&5$''\%&': "\&6' E-3"@"##"'''&'75@%9'%7'\&61'2?, $19''\%-, 'H''5&5'I.3";'<$': 5, '5, ']Zg\Y\UK'VYbWfjYXZfca a UfVYžUgg WUUK 'YggbYgg gYa YXi bbUh fU''Ga cch XUf_`cVgûCk YXXck b\Yf' 45#='$%'619': 5", $'5&3'.5901'4.5#='1?1, ': 191'795213'4?' 615@?'.5, 61, ;'B61?', 11213'$%', 11'''&$%''%&1C, '6159$8'5&3' %&1'#%-.3&C$'61./'4-$'711.'&5=13'5&3'1L/%, 13'-&319'619' 05K1;$ 

'G61': 5,',\$19&'5&3'313"#5\$13'\$%'619'59\$': "\$6'5'