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D a P a PHYSICS

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?+* 6(7+2(#/.#@&A)-.)#:/6+#,/96)+)#&' 6+#4-(#(&+#92-; +6)-(AB)#C' (96' 1#D, -+2, +#: /6+#(&+#)' 7+#
3+)-6+3#/9(/7+)E#2' 7+1A#(&' (# (#&+#,/7*1+(-/2#/.# #: /6+#,/96)+)#(93+2())#4-11#&' ;+F#

" +8* 23+3#(&+6#923+6)(' 23-25#/.#(&+#*6-2,*1+)E#G/3A#/.#02/41+35+E# 23#2;+)(-5' (-; +#)(6' (+5-+)
(&' (#,/7*6-)+#*&A)-.)# 23#-()#(+, &2/1/5-, ' 1# **1-, ' (-/2)H#
G" 3+; +1/*+3# #), -+2(-., #1-(+6', A#(&' (#4-11#*6/7/(+#, 96-/-)(AE#6+)*+, (#./6#(&+#), -+2(-., #7+(&/3E# 23#
5+2+6' 1# 4' 6+2+))#/.#(&+#1-7-' (-/2)#/.#), -+2(-., #, /2, 19)-/2)H#
, " 6+, /52-1+3#(&+#6/1+/#/.#), -+2(-., #3-), /; +6AE#*') (E#*6+)+2(E# 23#.9(96+E#-2#2(+66+1' (+3#, /2, +62)
)9, &#')#&97' 2#&+ 1(&E#)/, -+(' 1#4+11JG+25E# 23#*1' 2+(' 6A#9)(' -2' G-1-(A#H' 23#
3" ' *6+, -' (+3#

#

4 4 4KG, K+39P, /2(+2(PG, J4+GP), &/1)P7, ')P3+* 6(7+2()P*&A)-,)P923+656' 39' (+K&(71

' 23#; ' 6-/9)#')+*, ()# 6+#2, 193+3#/2#: /6+#,/96)+)#A11' G-K##

Q" O a GPA a da a d c d d d a ac d a d
c C ##\$%&' (#+; -3+2, +# 23# 2' 1A(-, ' 1# **6/' , &+)#3/#A/9#9)+#(/# ')))+)#

4&- , &#/.#(&+#)(93+2(#1+' 62-25#/9(/7+)#&' ;+#G++2# , &-; +3#7/6+##/6#1+))#4+11=#

>&+#3' (' #3-..+6#3+*+23-25#/2#(&+#2' (96+##/.#(&+#:

(&+#)+7+)(+6#(/# ')))+)#(93+2(#1+' 62-25#/#; +6#(&+#)+7+)(+6K###

Z" W d c W a c ##\$%&/#2#(&+#3+* 6(7+2(#)#6+)* /2)-G1+##/6#

-2(+6*6+(-25#(&+#3' (' # 23#7' 0-25#6+, /77+23' (-/2)#./6#, 966-, 9197#/6# ')))-527+2(#, &' 25+)#.#
' **6/*6-' (+=#%&+2#3/+)#(&-)#/, , 96=#

[11#* &A)-.)#.' , 91(A#7+7G+6)#4&/#(+', &#: /6+#,/96)+)#* 6(-, -*' (+#-2#2(+6*6+(-25#(&+#+; -3+2, +E#./6#
+8' 7*1+E#GA# 37-2-)(+6-25# 23# 2' 1A1-25#6+)91()#.6/7#(&+#W/6, +#: /2, +*(#2; +2(/6A#8' 7)K##S/4+; +6E#(#-)#
(&+#6+)* /2)-G-1-(A#/.#(&+#N23+656' 39' (+#[...-6)#: /77-((++#4-(#(&+#3+* 6(7+2(#: &' -6*+6)/2#(/#
, / /63-2' (+#(&+#*6/, +))E#+; ' 19' (-25# 23# 2' 1A1-25#3+* 6(7+2(' 1#3' (' K##>&' (#, /77-((++#6+* /6()#(/#(&+#
* &A)-.)#.' , 91(A#')# #4&/1+## 23#6+, +-; +)#(&+#-2*9(K##Y') +3#/2#(&-)E# 23#-2#, // * +6' (-/2#4-(#(&+#

3+* ' 6(7+2(8)#>+' ,&-25#: /77-((++# 23#: &' -6*+6)/2#)#2++3+3E#(&+#N[: #4-11# '\$' "#