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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+##/#(&+#: /6+#,/96)+#4-(#6+)*+, (#/#' 7/92(#/.#6-5/6# 23# 7' (&+7' (-, ' 1#3+(' -1K##D(93+2(#+; ' 19' (-/2)# 6+#6+; -+4+3#./6# 11#:/6+#,/96)+)K#R2#(&+#*6/G1+7J)/1;-25# G') +3#: /6+#,/96)+)#(&' (#, /; +6#, 1'))-, ' 1#7+, &' 2-,)#@STD! UVVE#@STD! VVE# 23#@STDLLV" E#(&+# 3+*' 6(7+2(#' 37-2-)(+6)##N/6, +#: /2, +*(#R2; +2(/6AOPX+, &' 2-,)#Y')+1-2+#(+)(# (#(&+#G+5-22-25# 23#+23#/.# (&+#)+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#(&+#N/6, +#: /2, +*(#R2; +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+, +; +)#(&+#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# '\$' "#