



cS6f@/ @))&

oyflz3|k\$; g xg]lj 1Kt

; Dks\$ f nfluM

P6nf66sf nfluM 8] f]f x\$; , + ! \$) \$ \$@)!%!@\$, dhakes@emory.edu

sf7df8\$ f nfluM 8f/g gfc; , (&& ! \$\$\$ %)%%÷!\$\$^ , darren@nance.net

; 60j / !* df dcf] fblx; cGt/Ld ; /sf/af6 aflx/LPKZrft / lgj ff;g; DalGw dxTj kOf{ltlyx; glhlsb}hfbf gkfnsf] zflGt kllqmf hl6n cj:ydf kl\$]5 . Pstf sfod ug{/ lj jfbf:kb ; jfnx; ; dfwfg ug{uxg 5nkm ugI; j} bnx;sf]gof"kl]tj 4tfaf6 b sf6; ; 6/ pI; flxt ePsf]5 . tyflk, gkfnsf] lgj ff;g k bnx;

lgOf6df klG ; fdLxs lhDdj]f/Ldf
lj wflgstfdf kZg p7g5 .

ePsf 5g\ ; 60j / !* df 3flift

w sfoqmd :ki6 ?kdf lgj ff;g kllqmf cj?4 ugI tkm{pGdv lyof} . o; ; 6/n] dtbftf hfu/Of cleofg cj?4 kfg] dtbftf lzlf; DalGw ; fdull vf]g] / /fhg]ts klltGbnf0{xtf]; fxl kfg] s6fsnfk e0/x\$] klltj dg kkt u/\$]5 . o:tf]JoJx/ ; jLsf/of]o xbg . jf:tj df lgj ff;g kllqmf j kt zflGt kllqmf]s]n Ps cz dfq ePsf]h]dfcf] fblsf j t6fg lqmf]snfkx; n]gkfnl hgtfdf lj Zj f; hufpbg / zflGt tyf khftGqkl]tsf] dcf] fblx;sf] ; dkOfdf kZg lrGx v8f ub5 . o; sf cltI/St, dcf] fbl lgs6 dhb/ ; w7gf/f sflGt/sf]5fkf tyf 6]nlehg h:tf ; ~rf/ dfloddf ul/Psf]cfqmdOf / lg/Gt/ wldS lj:t] zflGt ; Dem]f / cGtI/d ; lj wfgdf dcf] fbln]:ki6 ?kdf :jLsf/ u/\$]k\$; g :j tGqtf dflysf]7f8f]x:tlfk xf]. o:tf]lqmf]snfksf]; fj hlgS ?kdf lgGbf ug{/ tTsn /f\$g'dcf] fbl g]Tj sf] lhDdj]f/L xg hf65 .

lj:t] zflGt ; Dem]f cGtut\$]cfq}bflotj klt ; /sf/sf]pbfl; gtfj f/]klg b sf6; ; 6/sf]; /f\$ / /x\$]5 lsgeg] o; n] lj Bdfg clj Zj f; sf] jftfj /Ofnf0{cem 6]f k%ofPsf]5 . j t6fg /fhg]ts ult/fwaf6 cl3 a9ysf nflu ; /sf/ tyf dcf] fblx; n]cfqg k] {kl]ta4tfsf] dd6g?k ; ferf ; xdlT vfl]g' kb5 . bj}tkm\$ g]fx; n]cfk; l cGtlg{tnf0{a%g' kb5; dcf] fblx; ; aqmdOfaf6 ; kmrtfk] \$ /fhgl]tsf]dh k]fxdf cfpG' /f6

fj f{Lsf ; fy} dcf] fblaf/f lx+sf] cGto tyf
f0{sd ub5 .

kfn / c6o ; d%df ; (8()TjT*00 Tc0 Tw()TjT*jT*4)TjT*jT*4+

l; hgf ubg / zflgt tyf ; dfj zl khftgatkmsf] lg/Gt/ kpltnf0{; xhtf klq kbfq ubg . lj Bdfg
l9nf0n]gkfnl hgtfsf]7hf]lx:; f tyf cgt/fl60 ; dbfoalr ; /sf/sf]lj Zj ; glotfnf0{qmdzM sdugf

gkfnl hgtfnf0{lj:tfl zflgt ; Demf]f tyf cgt/d ; ljwfgdf Joj:yf ePcg?ksf]cf^gf klitglw rog
ug{lj Zj ; glo tyf ; dfj zl lgj ffg klqmfdf ; j tGq ?kdf ; xeful xg]khftflGqs clwsf/ 5 . lgj ffg
cfofn] lgj ffg; D:T*0.0T*0.00135TD0nlf4c0.1c0 Tw(x)Tj T*0.018*0.0005 Tc0.1416.1635 Tw(rg; D:101 Tc)Tj f