February 14, 22.4. 6.49130.9151631.912.766 c-4.7510.3 -3954.65 0 0 chSQ0.16 0.77 0 kql 0 0 1 146.9759.291 cm0 0 m1.151

C"Hqtocn"Pqvkeg"vq"vjg"Wpkxgtukv{

D ["V J G"KP PGT" NK I J V"UQEKGV [

 $\label{eq:continuous} \begin{array}{l} vjg"\,c\,y\,ctgpguu"\,cp\,f"\,vq"\,dg\\ eq\,o\,g"kpxqnxg\,f."kvùu"k\,o\,rqtvcpv"vj\,cv"vj\,gtg"dg"\\ c"hqtw\,o\,"qwv"vj\,gtg"vq"\,y\,jkej\,"qpg"ecp"tgncvg." \end{array}$

" Yg." vjg" Wpfgtukipgf." ytkvg" vq"

Hgct"qh"vjg"Wpegtvckp<"Yj{"Cfgnrjkùu"Wpfgenctgf"Oclqt"Tcvgu"Jcxg"Ftqrrgf

D ["LGUUKEC" ECORKVKGNNQ

 $\{qwt"\,ceeqwpv0"\,V\,j\,ku"\,\,o\,gcpu"\,\,v\,j\,cv"\,\,\{qw''\,ecpùv''\,\,cequpv$

qh" uvwfgpvu" gptqnnkpi" cu" wpfgenctgf" cv" $Cfgnrjk" jcu" fgetgcugf" d{" 65056" rgt} \\ egpv"dgvyggp"vjg"hcnn"422: "cpf"hcnn"4237" \\ ug o guvgtu." ceeqtfkpi" vq" vjg" 4237" Cfgn \\ rjk" Wpkxgtukv{" Fcvc" Dqqmùu" ugevkqp" qp"}$

 $\label{eq:continuity} $$vjg"gpvktgv{"qh"vjg"gptqnnkpi"encuu."qpn{"3306" rgtegpv"qh"uvwfgpvu"ecog"kp"cu"wpfgenctgf"kp"hcnn"4237."cu"qrrqugf"vq"vjg"3809" rgtegpv"kp"hcnn"422:0"Dcnvkoqtg"uckf"vjcv"c"hgy"{gctu"rtkqt"vq"vjku"fcvc."vjg"pwodgt"qh"wpfgenctgf"oclqtu"eqpukuvgf"qh"cdqwv"47"rgtegpv"qh"vjg"gptqnnkpi"encuu0$

Kvùu" örctvn{" dgecwug" qh" vjg" rtguuwtg" kp" jkij" uejqqn" vq" rkem" c" eqnngig." kp" vjcv" {qwùtg"uvggtgf"vq"rkem"c"eqnngig"vjcv"urg ekcnk | gu"kp" yjcv" {qw" ycpv.÷"uckf"Lqugrj" Nqodctfq."cp"Cfgnrjk"uqrjqoqtg" yjq"

 $qh"\,vj\,g"\,rtguuwtg"\,vj\,cv"\,eq\,o\,gu"\,\,y\,kv\,j\,"\,vcmkp\,i\,"$

dghqtg"vjg{"jcxg"vq"vcmg" o clqt"encuugu0: " Kp" cffkvkqp" vq" rctgpvu." uejqqn" qhłekcnu" o c{"cnuq"dg"rtguuwtkpi "uvwfgpvu"

D["GOKN["GNGHQPVG

Ncuv" uw o o gt" K" y cu" hqtvwpcvg"

 $\label{eq:control_vjg_loss} \verb|vjg|| Lciict|| Eqoowpkv{ | Hgmqyu|| Rtqitco. | |}$

 $o\,cve\,j\,gu"uvw\,f\,gpvu"\,y\,kv\,j\,"nqecn"\,pqp\,r\,tq\,l\,vu"hqt"$ 32" y ggmu" qxgt" v j g" uw o o gt0" Ctqwpf" Crtkn." $\verb"K"" y cu" o cvejgf" y kvj" vjg" Yq o gpùu" Hwpf" qh" \\$ $Nqpi"\texttt{Kuncpf.}"yj\texttt{kej}"j\texttt{crrgpg}f"\texttt{vq}"dg"o\{"\texttt{vqr}"$
$$\label{eq:condition} \begin{split} r & \texttt{kem}" \texttt{htq} \circ \texttt{"vjg}" \texttt{nkuv0} \texttt{"Vjgp."c"u} \circ \texttt{cnn"c} \circ \texttt{qwpv"qh"} \\ & \texttt{hgct"etgrv"kp"cu"K"ucy"vjcv"K"ycu"rncegf"cu"} \end{split}$$

 $\hbox{\tt K"} \ jcf" \ jcf" \ pq" \ octmgvkpi" \ gzrgtk_ \quad octgt"\\$

vjg"uS Omh" vj**g**E O j& \mathbf{O} O v O

Rwnn" [qwt"Rwpejgu."Rwnn"vjg"Rnwi"cpf"Ugg"Yjcv"vjg"Pgy"Iqxgtpogpv"Ku"Wr"Vq

" Qp" Lcpwct { " 42." 4239." Cogtk ecpu" ogv" vjgkt" hcvg" cu" Fqpcnf" L0" Vtw or " ycu" uyqtp" kp" cu" vjg" 67vj" Rtgukfgpv" qh" vjg" Wpkvgf" Uvcvgu0" "Chvgt" fg 1 cpvn { "rnqy

 $\label{lem:continuous} $$r \times u_j \times$

 $\label{eq:continuity} ogpv."jgùf"jcxg"\{qw"mpqy+."jku"gzgewvkxg" \\ qtfgtu"cpf"tg/qticpk|cvkqp"qh"vjku"pcvkqpùu" \\ \endalign{\color=0.9\columnwidth} \endalign{\columnwidth} \$

 $fgt"vjg"enqcm"qh"eqpvtqxgtu\{0""Vjg"Tgkip"$ qh" Vtw o r" dgicp" y kvj" c" jqttkłe" uvtkpi "qh" $ecdkpgv"\ ugngevkqpu."\ uwttqwpfkpi"\ jko\ ugnh"$ $y\, kv\, j\, "c" vcdng" v\, j\, cv"\, y\, qwn\, f\, "j\, cxg" ecwug\, f\, "\, J\, kvngt"$ $vq"ecnn"hqt"vjg"ejgem0""\ J\ ku"\ o\ quv"ecnewncvgf"$ o qxg" y cu" j ku" crrqkpv o gpv" qh" Dtgkvdctv" gzgewykxg" Uvgxg" Dcppqp" vq" vjg" rqukykqp" qh" Y j kvg" J qwug" E j kgh" Uvtevg i kuv0" " Dep $pqp."\,cnqp\,i\,"\,\,y\,kv\,j\,"\,Vtw\,o\,\,r\,\dot{u}u"\,Eqwpugnqt\,''\,cp\,f\,''$ $O \verb| kuvtguu" qh" vjg" Dqi." Mgm \{cppg" Eqpyc \{."$ $j\,cxg"dg\,i\,wp"etchvkp\,i\,"vj\,g"\,l\,pguv"rtqrc\,i\,cpfc"$ $o\,kpkuvt\{"kp"vjg"j\,kuvqt\{"qh"\,o\,q\,fgtp"uqekgv\{\emptyset"$ $Hcevu"ctg"pqv"\ o\ cpkrwncvg\ f"qt"\ j\,kf\ fgp."dwv"$ $dtc \, | \, gpn \{ \texttt{"kipqtg} \, f \texttt{"qt"} \, \texttt{\"ourwp.} \div \texttt{"cu"} \, \texttt{c"} \, \, \texttt{ogcpu"}$ qh" ł vvkp i " v j gkt" o quv" y kemg f " pcttcvkx gu0" $\texttt{Kp"}\,\texttt{v}\,\texttt{j}\,\texttt{ku"}\,\texttt{c}\,\texttt{f}\,\texttt{o}\,\texttt{kpkuvtcvkqpùu"}\,\,\texttt{i}\,\texttt{tuv"}\,\,\texttt{y}\,\texttt{ggm."}\,\texttt{Dcp}$

 $\label{eq:condition} $$ ku"" \ddot{o} y g" qrrqukvkqp" rctv \{0 \div ""Vq" ocp \{"fku i twpvngf" d \{"dki" dqz" ogfkc" eqtrqtcvkqpu" cpf" vjgkt" xctkqwu" dkcugu." vjku" oc {"tgrtg}$

ecn"rqygt"dcem"vq"vjg"rgqrng0""[gv."vq"vjg" vtckpgf"g{g."kv"crrgctu"rgtknqwun{"engct" vjcv"vjg"oqvkxgu"qh"vjgug"hgct/oqpigtgtu"

Pgy "Hkvpguu" Enwd "qp" Ecorwu

D["XKEVQTKC"RQNGTC

- " J cttku" Ejgtrenku" y cpvu" vq" rw o r"
- " Vjg" uqrjqoqtg" ivtwuu"

 $\label{lem:convergence} $$ hcuvguv" i tqykpi"enwd"cv"Cfgnrjk"Wpkxgtuk v{0"Tgeqipk|gf"d{"vjg"uejqqnùu"Egpvgt"hqt" Tgetgcvkqp"cpf"Urqtvu"cu"cp"qhłekcn"enwd" kp"Oc{."vjg"qticpk|cvkqp"pqy"jcu"crrtqzk }$

 $\label{eq:constraint} $$ nkmg" vjku."] qp" ecorwu_{\div}" uckf" Ejgtrcnku."c" \\ 3;/{gct/qnf" rj {ukecn" vjgtcr{" o clqt" htq o" }}$

 $c"\,rcuukqp"hqt"\,l\,vpguu"cp\,f"uvtgp\,i\,v\,j\,"vtckpkp\,i\,"\\vq"eq\,o\,g"vq\,i\,gv\,j\,gt\emptyset\div$

 $\label{eq:continuity} Y\,j\,gvj\,gt"vj\,g\{\augu"dg\,i\,kppgtu"qt"\,l\,v\\pguu"dwhhu."cnn"uvwfgpvu"ctg"\,y\,gneq\,o\,g"cv"vj\,g"\\Uvtgp\,i\,v\,j\,"cpf"Hkvpguu"enwd."E\,j\,gt\,r\,cnku"uck\,f0"$

- $\label{eq:continuous} \begin{array}{ll} & Gxgt\{ \ ''\ qvjgt''\ Vwgufc\{.''\ ogodgtu''\ oggv''\ cpf''\ vcnm''\ cdqwv''\ vtckpkpi.''\ iqcnu''\ cpf''\ okueqpegrvkqpu0''\ Vjg\{ \ ''\ cnuq''\ rncp''\ hqt''\ qe\ ecukqpcn''\ hwpftckugtu''\ cpf''\ eqoowpkv\{ \ ''ugt\ xkeg0''\ Qp''\ yggmgpfu.''vjg\{ \ ''\ yqtmqwv0''\ Uqog''\ uvwfgpvu''\ hqewu''\ qp''\ nkhvkpi'''\ yjkng''\ qvjgtu''\ fq'' \end{array}$
- - Cpqvjgt"dgpg1v"ku"vjg"eqp1fgpeg"

 $\label{eq:continuous} i\ gv"\ vj\ ku"\ pg\ y\ "enwd"\ uvctvg\ f"\ wr"\ cp\ f"\ j\ g"\ fg\ l\\ pkvgn \{"r\ wvu"\ j\ ku"\ y\ j\ qng"\ j\ gctv"\ kpvq"\ kv.\div"\ Equvgn\\ \end{cases}$

" Hqt" Ejgtrcnku." yqtmkpi" qwv" ku" o qtg" vj cp" lwuv" cp" cevkxkv{0" Kvùu" c" yc{" qh" nkhg0" J g" uvctvg f" yqtmkpi" qwv" ykvj" c" rgt

eqrg" ykvj"cpzkgv{"cpf"Cvvgpvkqp" Fgłekv"
J {rgtcevkxkv{"Fkuqtfgt"*CFJF+0

 $\label{eq:chygt} $$ \text{Chvgt"ukz" o qpvju." jg" fgekfgf" jg" y cu"tgcf{"vq" y qtmqwv"qp" jku"q y p0" J g"wugf" }$

"Kpurktgf" d{" Fcxkf" Xqdqtc." c" hqt o gt" rtqhguukqpcn" hqqvdcnn" rnc {gt" y j q" hqwpfgf" c" hqwpfcvkqp" vjcv" rtqxkfgu" rgt uqpcnk | gf" rj {ukecn" vtckpkpi " rtqitc o u" hqt"

- $\label{eq:condition} y\,cu"c"\mathsf{mk}\,f"\mathsf{K}"\,y\,cu"d\mathsf{wnnk}\,g\,f"c"\mathsf{nqv}.\div "\mathsf{uck}\,f"\mathsf{Vc}\,\{\,\mathsf{nqt}"\,Eq\mathsf{uvgnnq}."c"\mathsf{uqr}\,j\,q\,o\,q\,tg"cp\,f"\mathsf{v}\,j\,g"\mathsf{enwdùu}"\mathsf{uge}$
- $\label{eq:continuous} \begin{array}{ll} \text{"} & J \ g \text{"cffu"vjcv"vjg"enwd" y qwnfpùv"dg"} \\ \text{rquukdng" y kvjqwv"Ejgtrcnkuùu"ngcfgtujkr0} \\ \text{"} & \ddot{o} \ J \ g \dot{u} u \text{"xgt} \{ \text{"rtqwf"qh"dgkpi"cdng"vq" } \end{array}$



TRIO SO LISTI Friday, February 17 • 7:30 p.m. Westermann Stage, Control Habil Adelphi Studentt Ticketts (\$155 - T: LARSON LEG ACY CONCERT: C ÉSAR ALVAREZ Sunday, February 19 • 3:00 p.m. Olmsted Thea tre Adelphi Student Tickets \$5 NEW MUSIC XII: THE PARHELION TRIO Sa turday, March 4 • 8:00 p.m. Westermann Stage, Concert Hall Adelphi Student Tickets \$5 THE HABANA BOYS Westermann Stage, Concert Hall Adelphi Student Ticket (\$55)

