



CUHK Faculty of Science Achieves "World-leading" Ratingin Research Performances in UGC Research Assessment Exercise 2020

Vj g'Hcewn{ "qh'Uekgpeg"qh'Vj g'Ej kpgug"Wpkxgtukx{ "qh'J qpi "Mqpi "cej kgxgu'gzegmgpv'tguwnu'kp'vj g'Tgugctej "Cuuguuo gpv'Gzgtekug"*TCG+"4242"cppqwpegf "d{ "vj g"Wpkxgtukx{ "I tcpvu"Eqo o kwgg"*W E+0'Vj g"tgugctej "rgthqto cpegu"qh'xctkqwu'f kuekrnkpgu"kp"vj g"Hcewn{ "ctg"tcvgf "qpeg"ci ckp"cu"cej kgxkpi "vj g"õy qtnf/ngcf kpi ö" uvcpf ctf 'ukpeg"42360'

Vq"gpeqwtci g"y qtrf/encuu"tgugctej "cpf "f tkxg"gzegngpeg."\[\forall g"TCG"\] cu"cf qr \[\text{vgf} \] "kp\[\text{ytpc-kqpcn'dgpej} o \] ctruu" y j gp"gzco kpkpi "\[\forall g'\] tgugctej "qwr wu. "ko r cev'cpf "gpxktqpo gp\(\forall V\) g"hc\(\text{vgt} \) "\[\text{vg} \] "cuuguuo gp\'ggo gp\(\text{um} \)" kp"\[\forall g'\] gzgtekug"y kj "i tgcv'go r j cuku"qp"eqp\(\text{tkdwkpi} \)" "\[\text{upqy npqy ngf i g"tcpuhgt"cpf "i gpgtc\(\text{kpi} \)" i'to r cev'\(\text{um} \)" cecf go \[\text{kc" "tguq\(\text{vgu} \)" "tgugctej "u\(\text{vcyi} \)" {\"tguq\(\text{vgu} \)" ("tguq\(\text{vgu} \)" "kphtcu\(\text{vw} \) tr qt\(\text{vgf} \)" d\{"\] wpk\[\text{vgtukkgu0'}"

Tgugctej 'r tqlgevu'uwdo kwgf 'd { 'qwt'337 'grki kdrg'hcewn { 'o go dgtu'kp''y g'lukz 'vgcej kpi 'wpku'wpf gt''y g'Hcewn { ." kpenwf kpi "Uej qqn'qh'' Nkhg'' Uekgpegu. "F gr ctvo gpv'qh''Ej go kunt { ."F gr ctvo gpv'qh'' Rj { ukeu. "F gr ctvo gpv'qh'' O cvj go cvkeu. 'F gr ctvo gpv'qh'Uccvkurkeu. 'cpf 'Gctvj 'U { uvgo 'Uekgpeg'Rtqi tco o g. 'ctg'eqxgtgf 'kp''y g'hqmqy kpi " lkxg'' Wpku'qh'' Cuuguuo gpv'* WqCu+<"

- *3+Dkqmi kecn' uekgpegu" *kpen0' gpxktqpo gpvcn' dkqmi {." dkqvgej pqmi {." ci tkewnwtg" ("hqqf "uekgpeg." xgvgtkpct { 'uwf kgu+=''
- *4+ Rj {ukeu'('cuxtqpqo {=''
- *5+Ej go kuxt {="
- *6+Gctyi "uekgpegui NpenO'qegcpqi tcrj {."o gvgqtqnqi {+"cpf"qyi gt"rj {ukecn'uekgpegui NpenO'gpxktqpo gpvcni' uekgpeg+="cpf"
- *7+Ocyj go cykeu'cpf 'uvcykuykeu0'

 $\label{lem:condition} Cm'' tgugctej "ko r cev'' cpf "gpxktqpo gpv'' uwdo kuukqpu" d { " vj g" Hcewn { " tgegkxgf " \~oy qtnf/ngcf kpi \"o" *6, +" qt " \~okpvgtpcvkqpcm { "gzegngpvö" *5, +'tcvkpi 0Kp''cf f kkqp.' tgugctej "qwr wu'hqt''y g'WqCu''qh'Gctvj 'uekgpegu.' cu''y gm'' cu''O cvj go cvkeu''cpf "uvcvkuvkeu''tgegkxgf "vj g"j ki j guv'r tqr qtvkqp"qh'y qtnf/ngcf kpi "*6, +'tcvkpi "co qpi "cm'r ggt" wpkxgtukkgu0'' }$

Tgugctej "ku"tgi ctf gf "cu"qpg"qh"vj g"eqtpgtuvqpgu"qh"gf wecvkqp"cpf "ku"cp"ko r qtvcpv"eqo r qpgpv"hqt "s wcrkx{" gf wecvkqp0'Y kij "vj g"o kuukqp"qh"gzr cpf kpi "vj g"ltqpvkgt "qh"j wo cp"npqy ngf i g."vj g"Hcewnx{"qh"Uekgpeg"y kn" eqpvkpwg" vq"dwknf "qp"kuu"uvtgpi vj u"qh"o wnxk/f kuekr nkpct {"eqnocdqtcvkxg"tgugctej "cpf"r tqo qvg"uekgpvkhke" f gxgnqr o gpv'y kij "y qtnf/ngcf kpi "tgugctej 0"

Vj g'W E'Tgugctej 'Cuuguuo gpv'Gzgtekug'4242'tguwnu'ecp'dg'hqwpf 'j gtg0''

