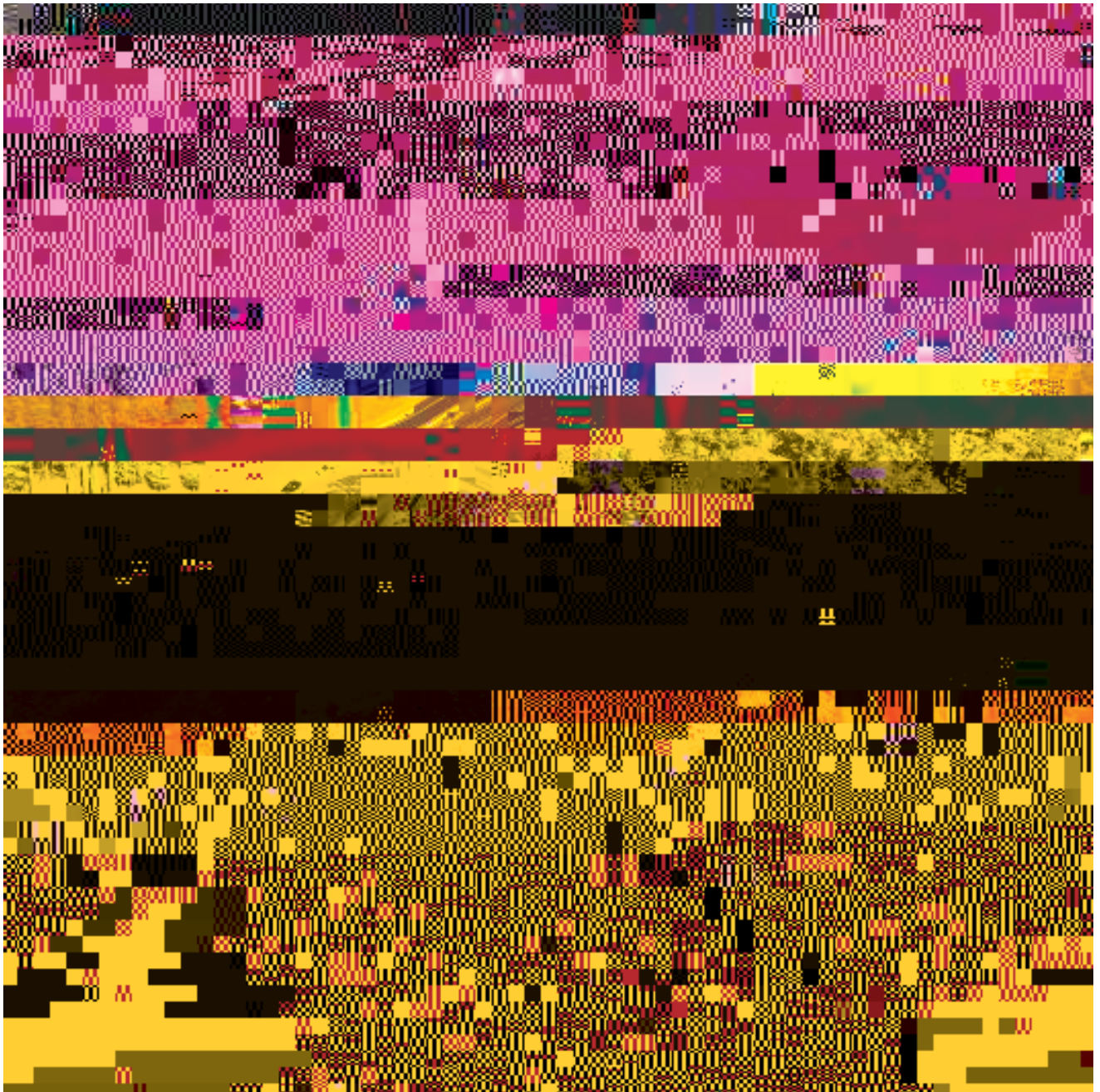


fZW Sk fa ` W Wv&Yk

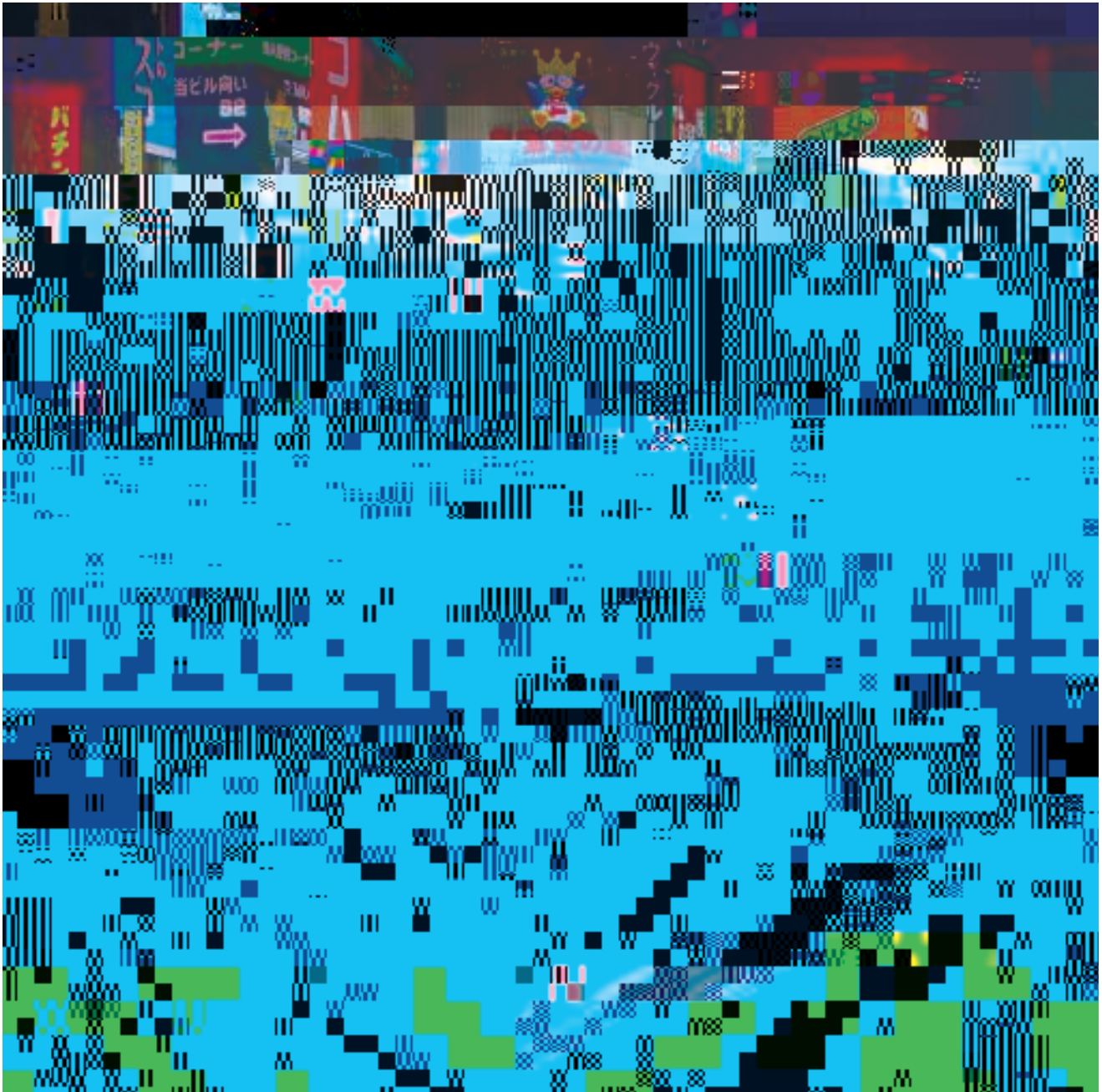


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*ITER Organization
2008 Annual Report*

WVdYk

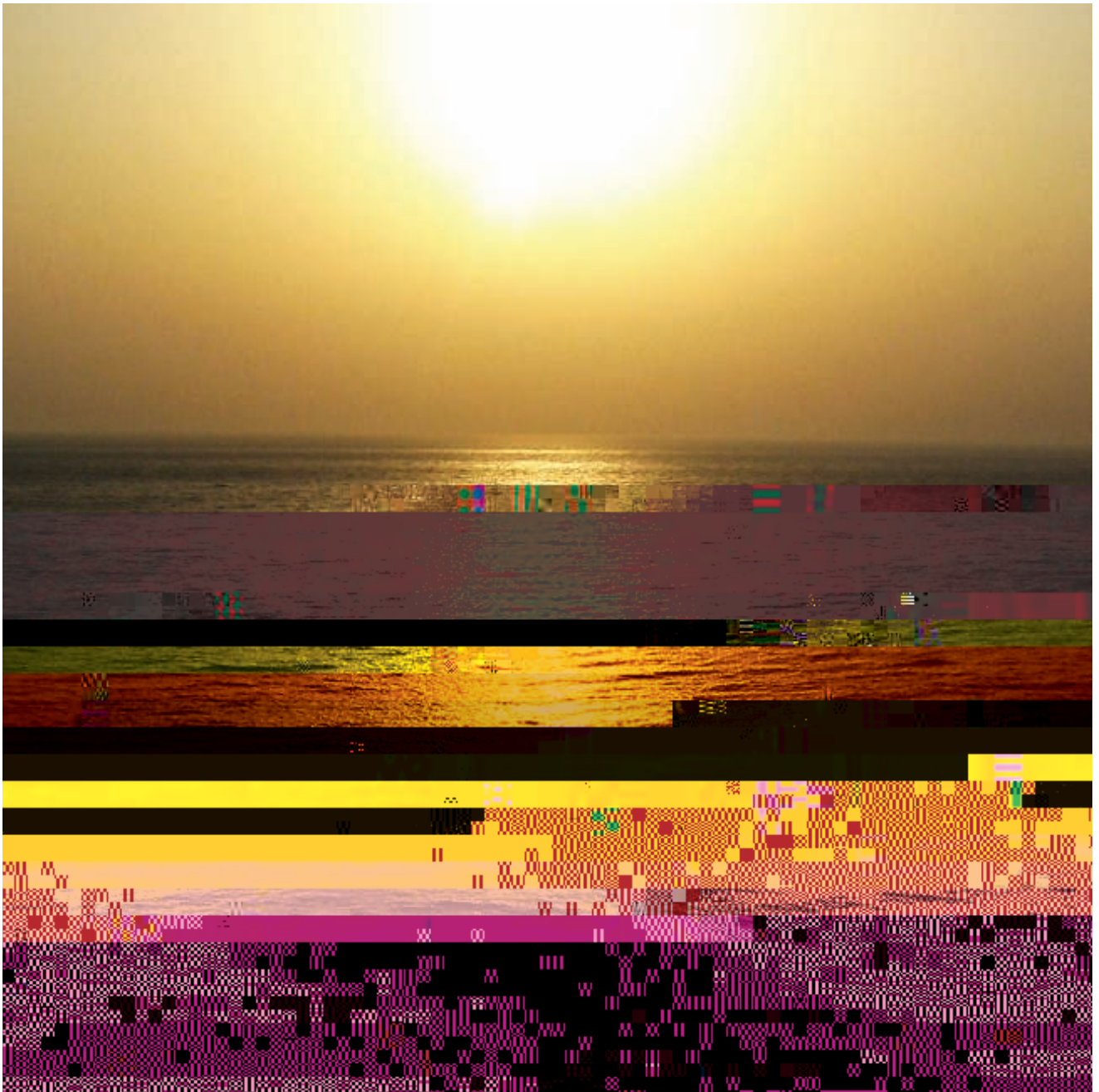


A huge global increase in energy use is inevitable.

“Results from ITER will bring humanity much closer to the realization of fusion as a large-scale and affordable form of energy.”



bd[ad]fk



*There is an urgent need
to seek cleaner ways*

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_Sadg` WWS][Y fZSf` M@SZVzFZW df Xg^kVdaXSu]hfk)adZWF7DAd/S || Sf[a`
i SehMkXg^ [WWz

3XVtUa_bVf[Y S fZadagYZ WafY` dM[W [\$"")f S^WtSf_ Wfei ad] W
fai Sd/ fZWdM[e]a` aXfZWVWZ` [US^dbVf[Usf]a` e)adZWF7D_ SLZ[WfZ[e dM[e]W

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Ad/S` [] Sfja`

;` \$""*† [_ badS` f eVde fai Sd/ Ub` ea^VSi[Y agd
[fVl Sfja` S^ad/S` [] Sfja` i WlVRS] WzFZW6a_ Vd[U
3YVWk Xad5Z[Si Se ` S^k VdST^eZW [ALfaTVd
Td[Y[Y S^fZW6a_ Vd[U3YVWU[Vd[fa bSUW/EFSX
Sd]hW [[U]Se[Y` g_ TVdXba_ S^fZW? W TVdH
S VSV_ [[eSf]WbdUMgdW i WlVdV[fa bSUWad
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;F7D BcbWf 4SeW W

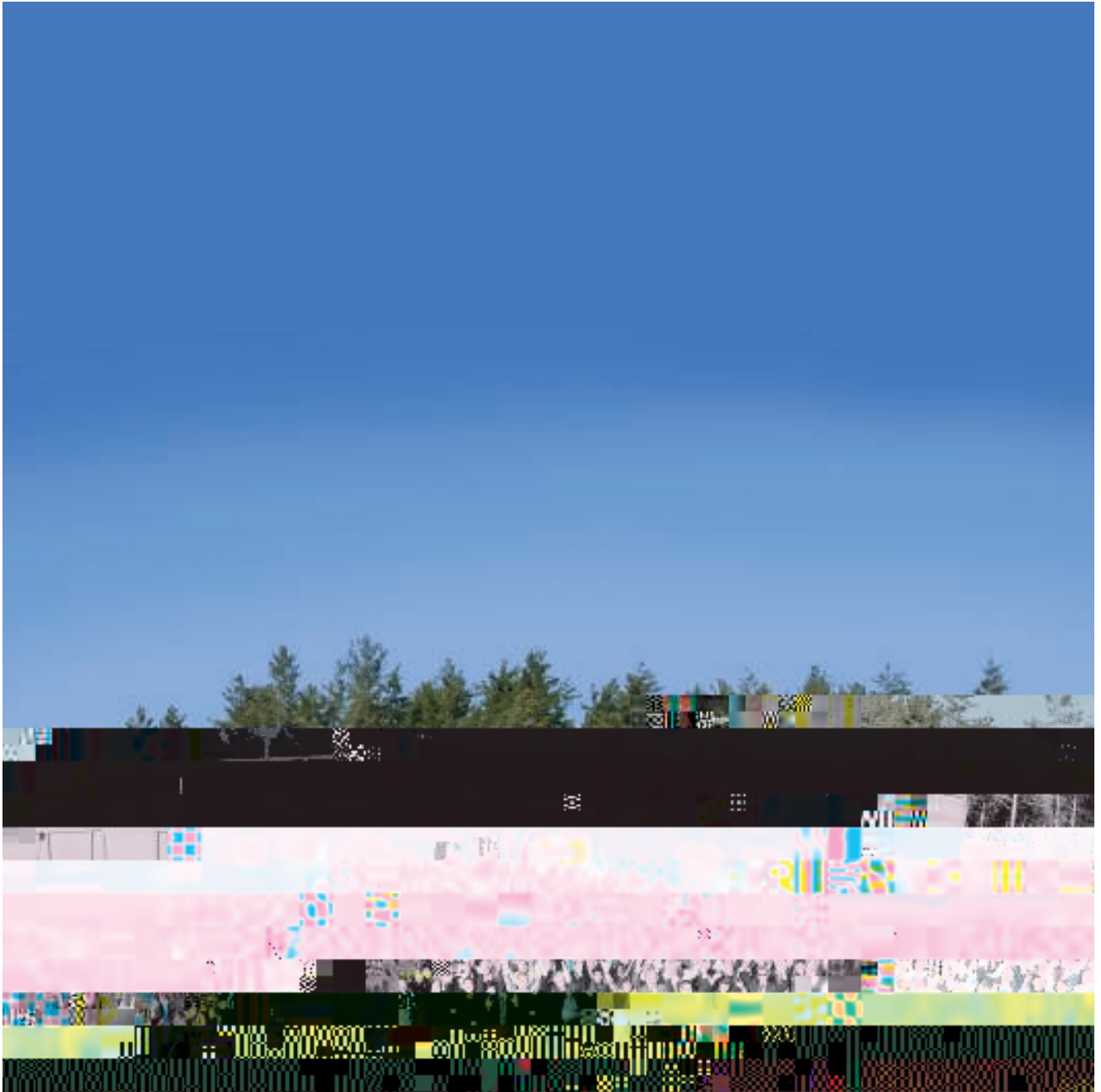
8a^ai [Y fZVdMa_ _ WVSfja` e_ SWWtk fZVEF35 [\$"") fZVf7DAd/S || Sfja` S V fZV6a_ WfU3YVWUWf egbbadfW Tk fZW adV eXgeja` La_ _ g` fFk i ad] W f[dWteK [\$""* fa dMa^WV_ S^adWdY` [eegVz 3 bcbaeS^YadS` W BcbWf EbWU[USfja` WfS[Y ;F7De dUWf[UYaSeS` V fMZ` [US^bScS_ WfWbi SeSvabfW Tk fZVf7D5ag` Uq` <g` Wf [Z [badS` f [b[USfja` e XadfZVdLbbWdLZWgVfS` V Udef aXfZVbcbWfz 3_ a` Y fZV [bcbWV WfSvabfW [fZW W fMZ` [US^TSeWf W Sd/SWf[fa` S^La[fa [bcbWfZVWLa` fcb^aX7VWV >aUS[W ? aWd/7>? efS` V fZVWf[US^efST[ffk aXfZW bSe_ St S` VS` W WdY` XadfZW af 5Wz FZVf7D 5ag` Uq` S^ea SYdWf XadbS` ` [Y bgbaeWf fa fZW dM^W AHMS^BcbWf ELZWgVf [Z S fSdWfVfVfX\$`#` Xadef BSe_ Sz

I ad] La` f[gW Vgq[Y fZVWfSda` fZVf7DDWfSdLZ BS` f ZVfSeWf WValU_ Wf WdU[T[Y fZVbd[U[bs^ bZke[UbSUf]f[fa` XadfZV5a` efq[fa` EZSeWSei W^Se fZVWfWf WfS^bZke[UbcbYdS_ bS` ` W XadfZW def fW kVScd aX;F7D abWf[fa` z FZVfVf 4S`] W? aVgWV /F4? fibcbYdS_ i [^TWfZW def fMZ` a^ay[US^VWV Wf [UgWV [fZVf7DDWfSdLZ BS` z FZ[ebcbYdS_ i [^ fVf La` Ufife XadSLZ[Wf[Y dVz egX U[Wuk [fdf[g_ egbbk XadXgfdVgeja` bai WfbS` feZ BcbYdWbi Se_ SWV fai Sd/ S_ adWfWf[Uf WV [fa` aX;F7DbSe_ SdUWScjaez FZVC/#` dWfWUWdUWScja i Se bcbWV SffS[ST^W S` V fZW#) ? 3 SeeWdW dUWScja i SeWdWf[S^k La_ bVfWz

AHMS^BcbWf 5aef S` VS BcbWf BS` S` V D^bgdUW 7ef[S^WValU_ WfSfja` i SeWfWfWbWS VS` ; fWdSfW BcbWf ELZWgVfWfST [eZW XadbS` ` [Y bgbaeWf FZW D^bgdUW7ef[S^W Sd/TSaW a` fZW ad] 4d[S] Vai` ` EfojUgdWfWfWf% S` V fS] WfWfY` LZS` YWf[fa SLLag` f VUWf[Y dV S[[Y abW WdY` [eegVzegLZ Se 7>? La[^dbWU[USfja` z;` <g` WfZVf7D5ag` Uq` dMa_ _ WVV S` [WfWVWf SeWfWf Wf aXfZVAd/S` || Sfja` eUdefe Se fZW Vj[efVd fai Sd/ Tq[Y[Y fZW W WdY` S` V dLZWgVfafa d/S` fFk FZWd[eLbVBS` Wf Xad_ W i [Z dWdWf d W [d W f[9 f [Wd B e [a` el a >



Ua^STadSf[a`



A global collaboration has been formed to test the feasibility of fusion.

[S gSk\$""* S VdM/W/S df d/ba` eM/ Sfg_`

3eW TkS VDW afW S V[Y SUf[ff[MeXdfZVKVSc
XaUgdW a` egbbad[Y fZVWV[Y eS V d/VfW bcbUgdV/
_ Wf SUf[ff[MeXUff[LS^bsfZ ekfW e[ff[WZVWfSUgg_
hWVMS V_ SY VffZ6V[Y egbbad ax[žhWVWkefW/e
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ZSd/i Sd/NS` VeaXi Sd/WLb_ ba` WfeXad[efdj_ WfSfja`
S` VUa` fcb`z9|HW fZWsdVW g_ TVlaXbS` f ekefV_ d
fZVLydt/Vf Vef_ SFWadUa_ ba` Wfe[e#(' + bcbh[VW [
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dM/dM/Vfea` VbXfZWsdVf UZS^WYVd^aXfZWbdWfz
FZW5A635 Ydgb S`ea XaUgaW a` Tg[V[Y S BS` f
EkefV_ Bcb` WWSfSTSeW ZLZ i [^Ma^M] fa S Ua_ bM/M
bcb` VbXbS` f ekefV_ d [Ugv[Y WfS[VW WbU]bfja`
aXeY` SeS` V TVZShjagz FZWdgb i ad]W fai Sd/
X[S^ [Y S TSe]UBS` f EkefV_ : aef bcbfakbWSe
bcbaxaXLa` Ubf XadbS` f ekefV_ [fWcbfja` S` VeW
WbU]bfja` z3 UcdMg^eM/M]a` bcbUte i Se_ S` SWW
fa W/MWb` fZV_ Sadejbb^Mte aXBbYdS_ ST^W
>aY[U5a` fcb^M/M]g]b_ Wfz FZWBS` f EkefV_ 5a` fcb^
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i [^TVbSd^aXS^BcbUgdV Wf 3cdS` W_ WfeXad[Z][V

6VbScf_ Wf Xad5WfdS^7 Y[Ww[Y S` V B/S` f Egbbadf /57Bfi

FZV57B6VbScf_ Wf i ad] W fai Sd/ WbS[V W d/AgdUW Vaf_ Sfv^XadfZVLa` efgUfja` bZSe/abXfZVbcbWf Vgd Y fZVWVd i [fZ La` e[VWbT^VsfWfja` fa Uaf Ugf[Yz6[h]eja` : VSVei VdV S_ W XadfZVbS` f 7 Y[Ww[Y S` V 8jV5KUMW[h]eja` d La_ bV[Y fZW WbScf_ Wf e_ S` SYV Wf efgUfgd/

; fZVbS` f 7 Y[Ww[Y V[h]eja` i fi a Ww[YZS Vw XadfZV5aa[Y I SfvEkefV i Vd/bcbaeW S` V [UadbadfW [fa fZW W TSeV[W[bcbh` Y ahVb^ ekefV eSVK S VdVgU[Y [eS^Sfja` S VabVsfja` S^ UafezI ad] bcbYd/V fai Sd/ fZVfa] S_ S] 5aa[Y I SfvEkefV BcbUgd/ Wf 3db` YW Wf i [fZ See[ez fS` UW6a_ fZVGE 6a_ Vaf[U3YVWUz;` [fS^bcbUae ai V[SYd_ ei Vd/bdVsdV XadfZ[ekefV ž%6_ aWwS` V Skagf aXfZVUkabS` f Tg[V Y i Vd/La_ bVW S` V fdS` eVWw fa fZV5E 6VbScf_ Wf XadfZW` S[Sfja` aXTg[V Y Skagfz

EfgV[XadfZVabf[[Sfja` S` V Ww[Y aXfZW af 5V^SLU[fK VbK [fZVWVdUgV W [SdLa_ _ WWSfja` fa fZVef35 Xad: af 5V^Abfja` 3 fZSf i SeSUWfWz I ad] XadfZW af 5V^TWS [-g Vm [fZ VjbVf SVhUW Xb_ fZV-ad/S` 6a_ Vaf[U3YVWUz fZVbgbae/abXfZV : af 5V^SLU[fK efa egbbadf ahVb^F7DabVsfja` S` V _ S[fV S` UMS` V XadfZ[e d/Sea` SefgVki Se[[fSfW i [fZ [VgeVSeVWfZVWVST[fKbS` V_ S[fS[S[fK e [aXfZW af 5V^SLU[fK fZV[[fS^Skagf aXfZVbS` SefW XSLU[fK Xad'ai ŽVWVfKbV8 i SeW SeLa_ bVW S` V S` W Vaf_ Sfv^Xad'ai ŽVWVfKbV i SeW SebVad Wz FZ[eVaf_ Sfv SegelW fa Wf ab fZVLa` UafgS^ Ww[Y aXfZVWg^UZS[bcbUae Y ekefV XadfZW af 5V^SLU[fK TSeV Wfz

8[S^EkefV DVtgdV Wfe dSfe Vd/La_ bVW XadfZVbWV; Wfja` ekefV i fZV9Se; Wfja` ekefV i S` V fZV9'ai 6[eLZsdVbVb` Yz fZVf7D HSLbg_ : S` VTaa] i SeXad S`k [eagW 6VWV TVdXa'ai [Y S` [WwWwVf dVW ž

6[eLb[eja` ea` fZVfa] S_ S] 7j ZSgef BcbUae Y ekefV dUgV W [SdM/V BcbUae 8ai 6[SYd_ ž fZVf d/fg_

B S` f_ aWw[Y Vbaf i SedM/W W [adVafa SUZ[VW S La_ bVWVd/fg_ UkVbkefV _ aWwfa TVgeV Xad Ww[Y i e_ gSfja` S` V gV[SfvK fdS [Y aXabVbSadz 3`ea S Ww[eja` fa d/VbSfWZVWef V[eLZsdVWV[e fad b Xb_ fZV6[SY aef[LeTg[V Y fa S` W eVWVdS_ W Tg[V Y i Se_ S W dUgV Y [Se_ S^Vd6[SY aef[Le Tg[V Y S` V eY [LUS` f Uaf eS[Yefa fZVbcbWfz

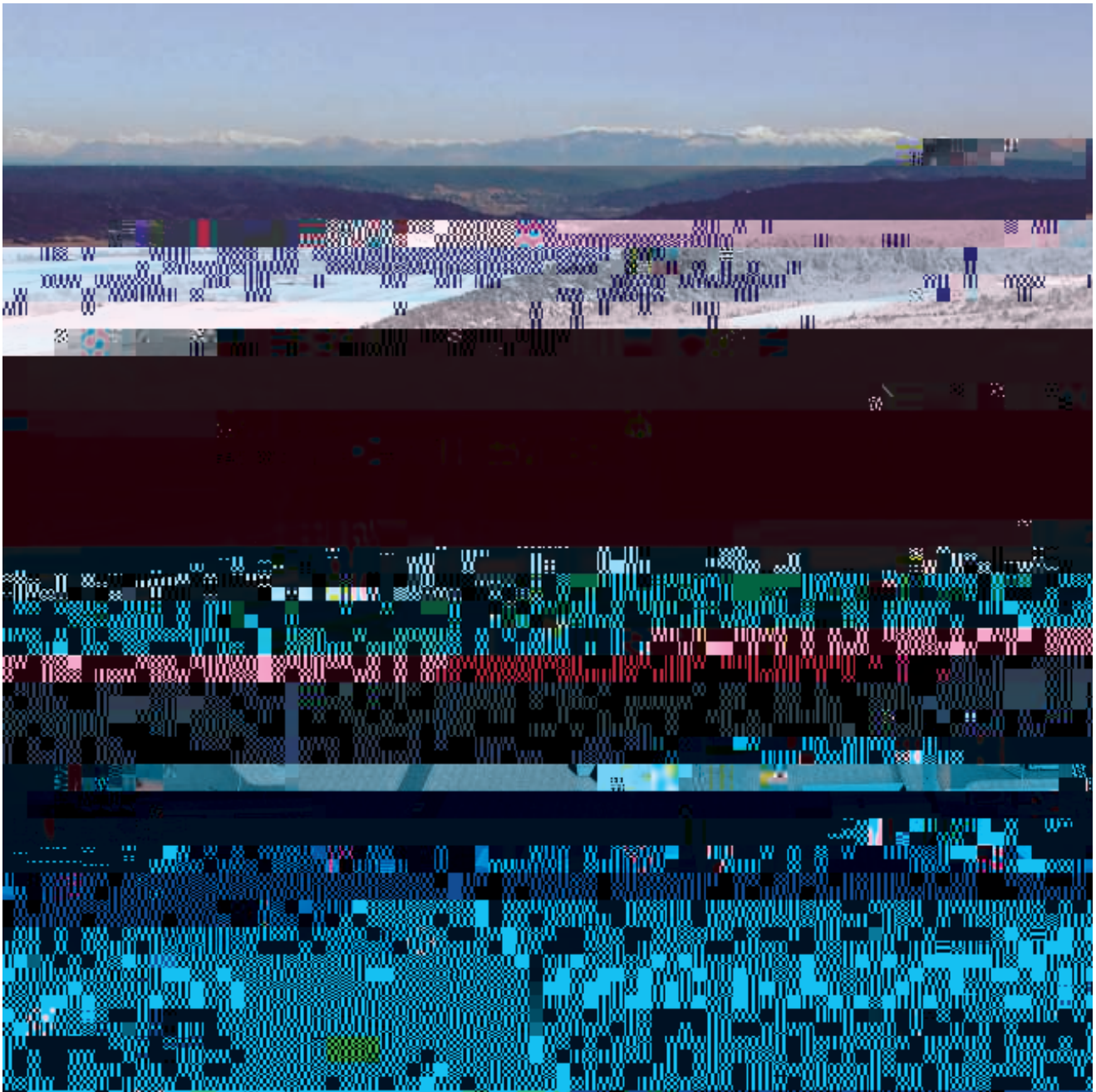
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6gd Y fZVWVd fZV6Vd Y AX UW Sed/aba` eT`W Xad_ S` SY[Y fZVd/AgdUW aX[VgefdS^bSd[UbS` fe fZdgyZ eVh[UWLa` fdSufz 3f fZVWVdVW \$""* fZVW i Vd/bcbaj [SfvK)` 5a_ bgVz3[VW 6Vd Y /536fi ebV[S]efe[haVW [WwVb[Y fZV_ WZS` [Lb bS` f S` VLa` YgSfja` Ww[d Sei VVSe% Ww[Ww[eHV FSe] 3YdV Wf fedVb[Y fa 536 S` V WY[Ww[Y d/AgdUW i Vd/V Y W i [fZ fZV6a_ Vaf[U3YVWUz 3e _ S` kSe' "" 536 6SfS 7j badf FSe]ei Vd/bVad W i [fZ fZV6a_ Vaf[U3YVWUz 3` [badfS` f faa^Xad 536 La` STadSfja` fZV@AH;3 >3 VSFSTSeW i Se

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Ua` fca`Z\FZWgeVáX[žVáWUa[? adY[S^k bcabaeW
Xad7VWV\saUS[? W? aWV7>? fiegbbdUe[fa` i Se
Vj/VWVW fa egTefS` f[S^k [bcaHWf[US^bae[fa`
Ua` fca`VSM[Y fa Ua` HWVWdbW[US[fa` a` ha^SWW
S` V UgdVf dWgdV WfeZSbWUa` fca^abf[[S[fa`

[fva]



ITER aims to demonstrate that fusion is an energy source of the future.

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Eg_ _ Sdk aX5a_ _ [f_ Wfe 3Ulag` f

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