

Statistical Mechanics and Thermodynamics
Guidelines on E-Mailing Homework

1. Homework is due at 12:59 PM on Fridays unless otherwise indicated.
2. You may prepare your homework in any format that is legible, convertible to PDF, and e-mailable. (La)T_EX is both the most readable and most compact, but other formats, such as a file saved from a computer tablet or a photocopy of handwriting, are fine. A picture taken with a cell phone is sometimes both hard to read and very big; try compressing it with software that mimics a photocopier, if possible.
3. Save your homework as PDF with the filename `yourname.pdf`, replacing `yourname` with your `@usf.edu` e-mail address: I will return the corrected homework to `yourname@usf.edu`, so the filename needs to be exactly right.
4. E-mail the PDF as an attachment to `dauidra@ewald.cas.usf.edu`.
5. I will run the PDF through Ghostscript to try to compress it with no/minimal loss of resolution.¹
6. If Step 5 does not reduce the size below 2MB (2048KB), I may attempt to reduce the size of the file by hand.²

¹ The automated script tries two routes. The first usually results in the smaller output, but sometimes the second does better. They are

```
1. gs -q -dNOPAUSE -dBATCH -P- -dSAFER -sDEVICE=ps2write -sOutputFile=file1.ps -c save
pop -f orig.pdf
```

```
gs -q -dNOPAUSE -dBATCH -P- -dSAFER -sDEVICE=ps2write -sOutputFile=output1.pdf -c save
pop -f file1.ps
```

```
2. gs -q -P- -dNOPAUSE -dBATCH -sDEVICE=pdfwrite -sOutputFile=output2.pdf -c .set-
pdfwrite -f orig.pdf
```

² Example: `convert -density 110 -white-threshold 75% -black-threshold 25% -colorspace Gray orig.pdf output.pdf`, from the ImageMagick suite, followed by another round of `gs`.