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1 #Wesley Johanson
2 import ChE
3
4 dataNames = ["Log_10(Reynold's Number)", \
5              "Log_10(Friction Factor)[Eqn 6]", \
6              "Log_10(Friction Factor)[Eqn15]", \
7              "Log_10(Friction Factor)[Eqn16]"]
8 fnLabels= ["Fanning  $f$ ", \
9            "$\mathcal{Re}<2\cdot 10^3$", \
10            "$2100<\mathcal{Re} < 10^5$"]
11
12
13 plot = ChE.ChEplot()
14 #Data
15 plot.loadCSV('CSV/data_logRe_logf.csv', dataNames, indepVars=1)
16 #Plotting
17 plot.setFnLabels(fnLabels)
18 plot.setDataColors(['#89CFF0', '#800020', '#301934'])
19 plot.plotData(width=6,height=6)
20 #Regression
21 plot.plotLRegLines(width=0.1)
22 plot.printAllRSquared()
23 #Plot Parameters
24 plot.setAxisLabels("$Log_{10}(\mathcal{Re})$", "$Log_{10}(\mathcal{f})$", xpadding=5,
25                   ypadding=5)
26 plot.setTicProps()
27 plot.setNumTics(0.1, 0.25, 3,3)
28 plot.showLegend()
29 plot.changeFont()
30 #Presentation
31 # plot.showPlot()
32 plot.savePlot(filename="IMG/logRe_logf.png", _dpi=600)
```