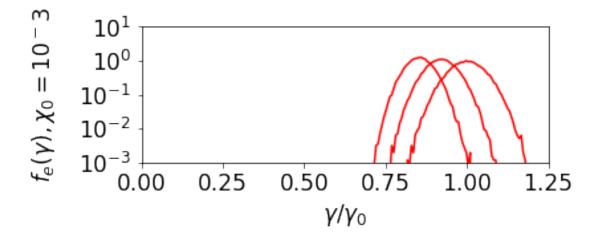
## vis

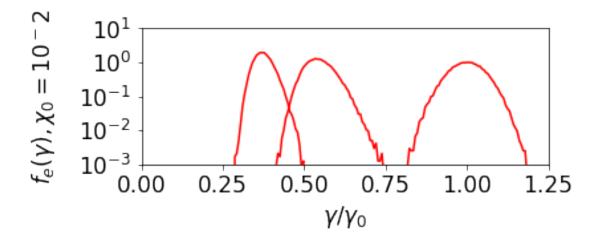
## September 11, 2021

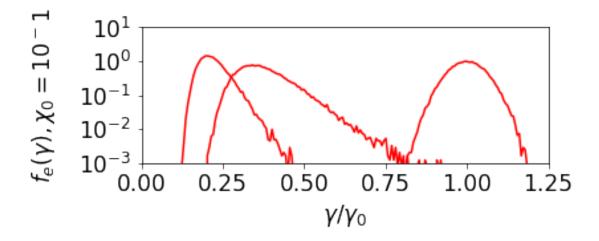
## 1 Visualizing results

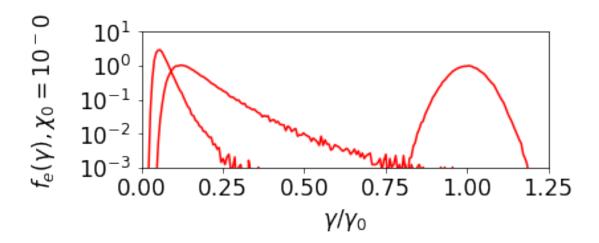
```
[6]: import pushers
      from pushers import *
[13]: for i in ["-3","-2","-1","-0"]:
          # load
          infile = open('chi0_{}_FP'.format(i),'rb')
          chi0, tmax, tdim, Nsmpl, gmdist_dump1, gmdist_dump2, gmdist_dump3 = pickle.
       →load(infile)
          infile.close()
          # get histograms
          nbins = 200
          # dump 1
          gmdist_y,gmdist_x = np.histogram(gmdist_dump1,np.
       \rightarrowlinspace(1,1800+4*90,nbins))
          gmdist1_y, gmdist1_x = gmdist_y, np.array(arraycenter(gmdist_x))
          # dump 2
          gmdist_y,gmdist_x = np.histogram(gmdist_dump2,np.
       \rightarrowlinspace(1,1800+4*90,nbins))
          gmdist2_y, gmdist2_x = gmdist_y, np.array(arraycenter(gmdist_x))
          # dump 3
          gmdist_y,gmdist_x = np.histogram(gmdist_dump3,np.
       \rightarrowlinspace(1,1800+4*90,nbins))
          gmdist3_y, gmdist3_x = gmdist_y, np.array(arraycenter(gmdist_x))
          # plot
          fig, axes = plt.subplots(nrows=1, ncols=1, figsize=(6,4))
          plt.plot(gmdist1_x/1800,gmdist1_y/np.max(gmdist1_y),'-r')
          plt.plot(gmdist2_x/1800,gmdist2_y/np.max(gmdist1_y),'-r')
          plt.plot(gmdist3_x/1800,gmdist3_y/np.max(gmdist1_y),'-r')
          plt.xlim([0,1.25])
```

```
plt.ylim(np.array([1e-3,1e1]))
  plt.yscale('log')
  fntsz=17
  axes.set_xlabel(r'$\gamma_0$',fontsize=fntsz)
  axes.set_ylabel(r'$f_e(\gamma),\chi_0=10^{}$'.
→format(i),labelpad=15,fontsize=fntsz)
  axes.set_xticks([0,0.25,0.5,0.75,1,1.25])
  axes.set_yticks([1e-3,1e-2,1e-1,1e0,1e1])
  axes.tick_params(axis="x", labelsize=fntsz)
  axes.tick_params(axis="y", labelsize=fntsz)
   # aspect
  xmin, xmax = axes.get_xlim()
  ymin, ymax = axes.get_ylim()
  axesratio = (np.log10(ymax)-np.log10(ymin))/(xmax-xmin)
  axes.set_aspect(aspect=1/3/axesratio)
   # final
  plt.tight_layout()
   \#plt.savefig('chiO_{{}})_{FP.pdf'.format(i))
  plt.show()
```









[]:[