

The emittance ϵ from these values is

$$\epsilon = 0.1 \times 10^{-2} \quad (21)$$

We can compare these values found by the method of correlation (20) to the parameters used to create the skew phase space and we see that they agree quite well. (Note that to be complete, we should calculate the errorbars of all these calculated values from the fits of m_x etc., if I only have more time!!!!).

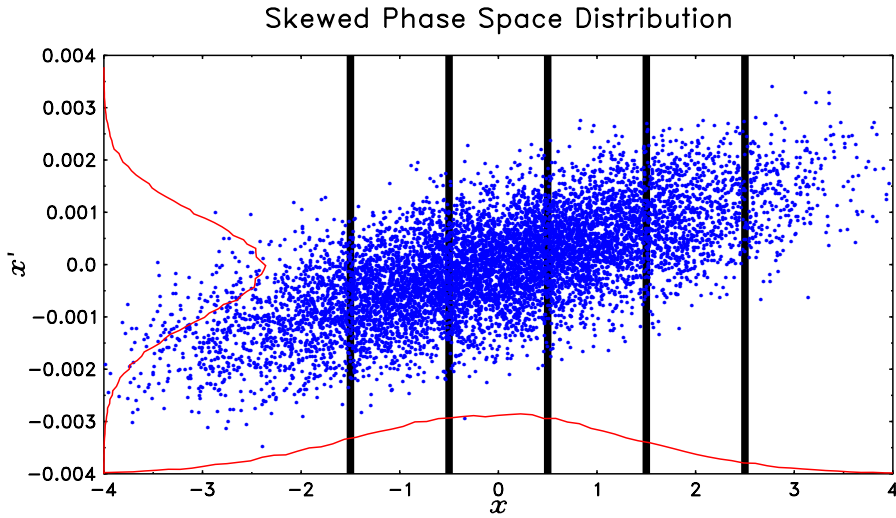


Figure 7 The distribution of this skewed phase space is projected on both the x and x' axes shown in red. This phase space has $\sigma_x = 1.4$ and $\sigma_{x'} = 0.7 \times 10^{-3}$ and $\langle xx' \rangle = 0.1 \times 10^{-2}$. The slits at $-1.5, -0.5, 0.5, 1.5, 2.5$ (shown as thick black bars) select out the particles with x' shown in Figure 8.