



Heterodyne:

$$\int x(t) \cdot \exp(i2\pi ft) dt$$

LineMon:

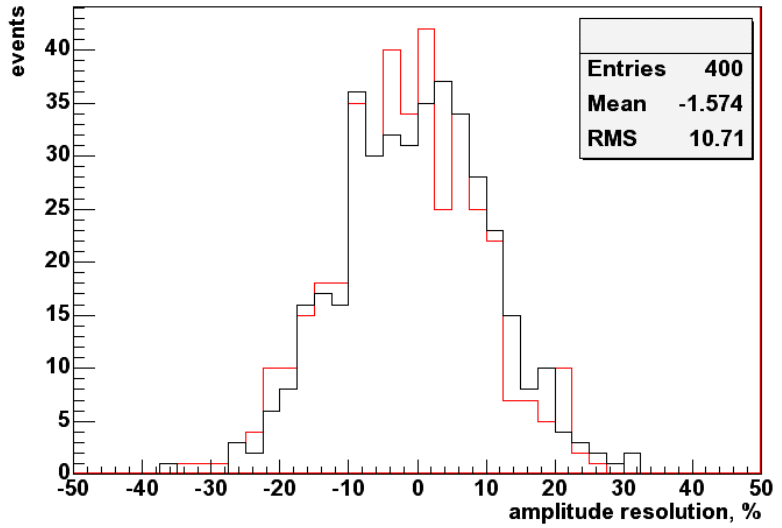
resample $x(t)$ at sampling rate

$$f' = nf$$

**and then use FFT to calculate
the integral above**



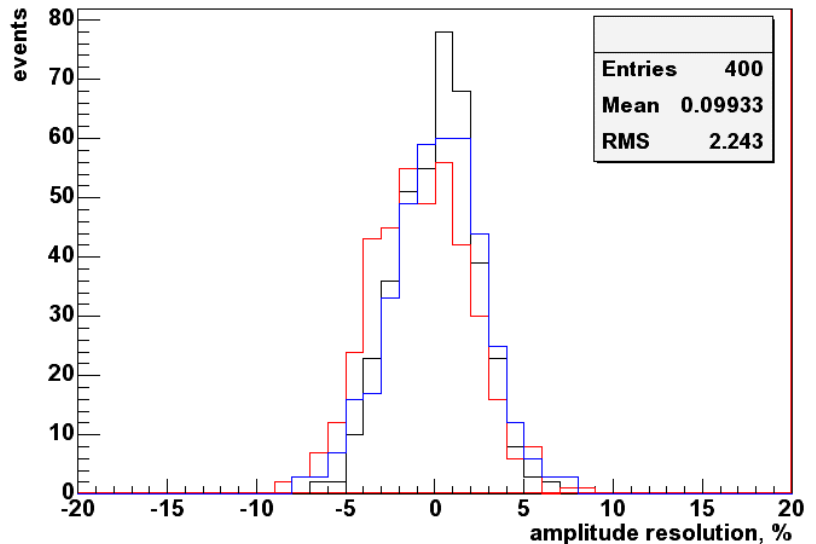
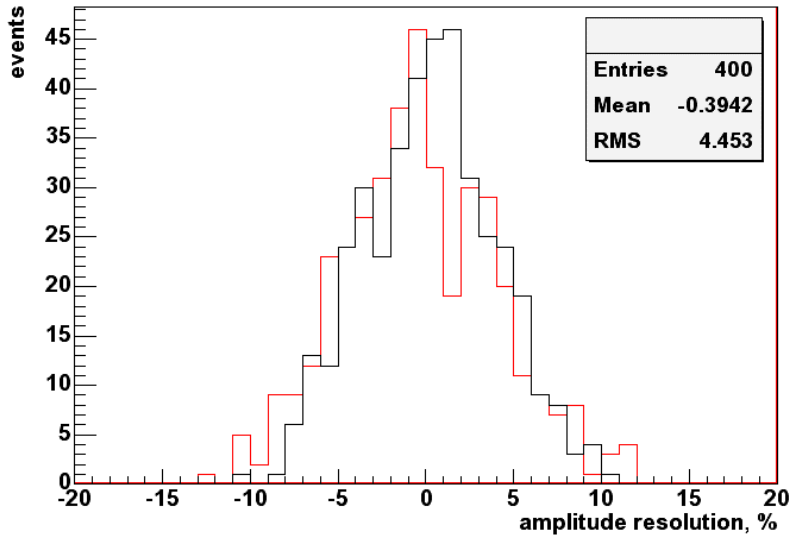
LineMon amplitude resolution



black -
heterodyne filter

red -
LineMon filter 8

blue -
LineMon filter 16





corresponding power spectra

