In the case of a musical note, the shorter the note lasts in time, the less certain we con be about its exact frequency, and in the Hip skide, a more definite frequency, requires a longer duration signal i.e Short signal correlates withwide range of frequencies and only wide signals correlate with a short range of frequencies. There fore the time (t) required to determine the frequency (f) of the musical hote can be taken as conjugate variables.