

Figure 1

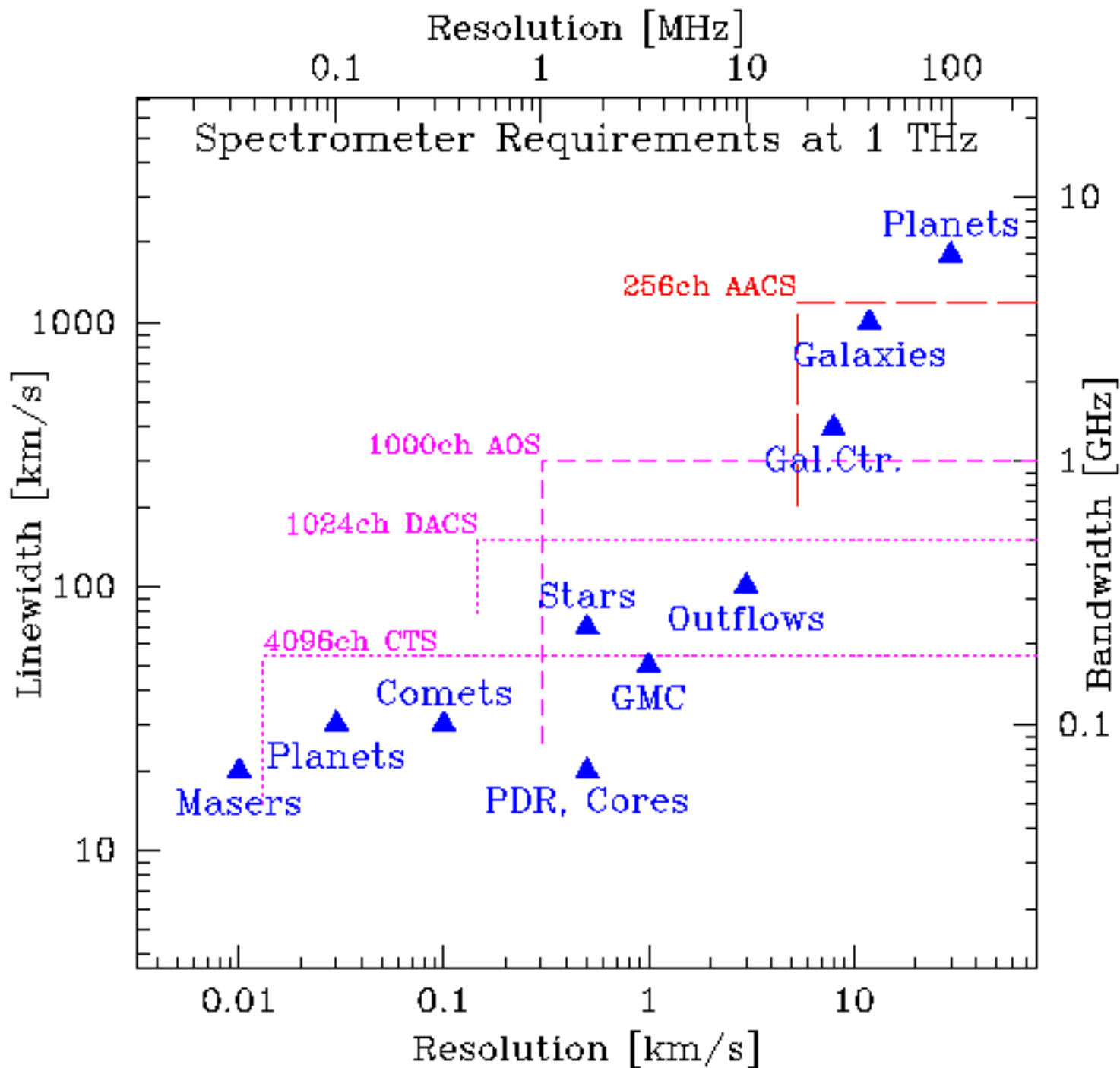


Figure 1 - Spectrometer bandwidth and resolution requirements. The left and bottom velocity scales are frequency-independent. The right and top scales correspond to these for line frequencies near 1 THz. Dashed and dotted lines show different spectrometer technologies for single spectrometers: CTS are chirp-transform spectrometers, DACS are digital autocorrelation spectrometers, AOS are autocorrelation spectrometers, and AACS are the analog autocorrelation spectrometers we describe here.