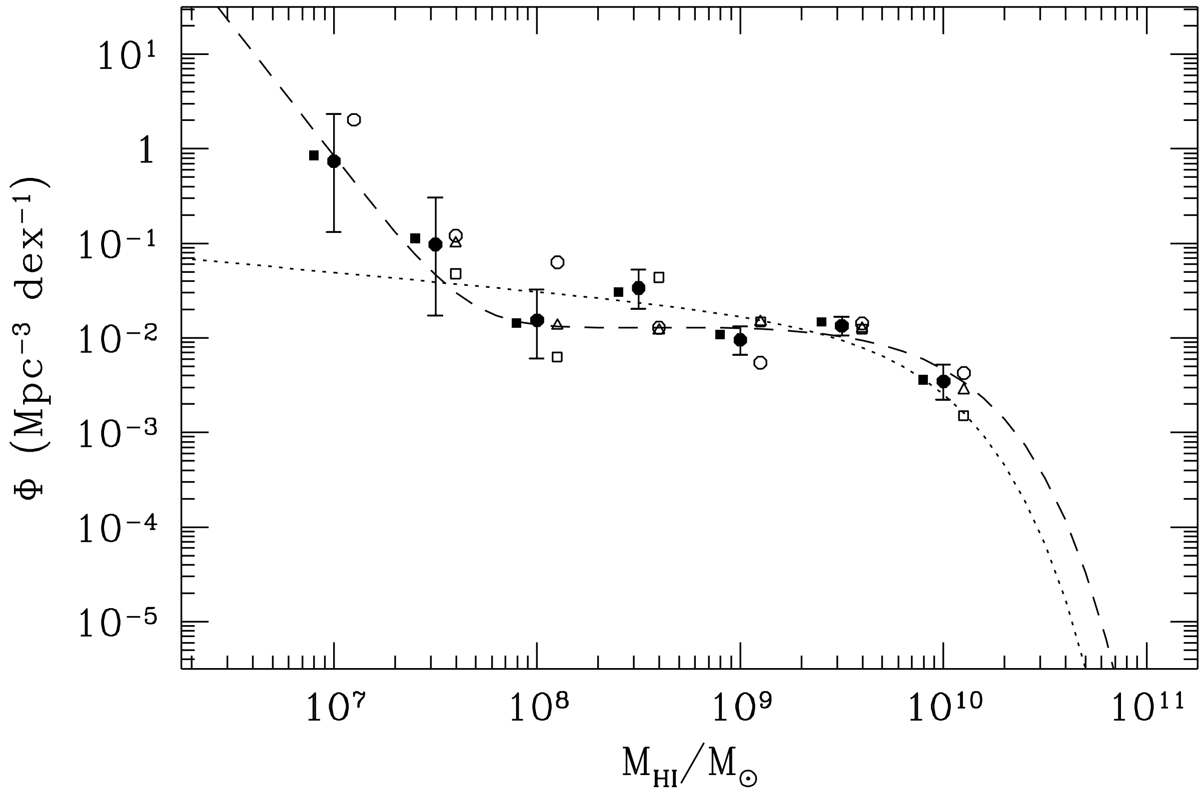


Fig. 3.— The HI mass function determined from Arecibo surveys of HI sources. Solid circles with 95% confidence limits show the joint mass function of the Arecibo Slice and AHISS. Several subsets and alternative reductions of the data are also shown without error bars, and are offset right and left of the joint mass function points for clarity. Open circles show the mass function of the Arecibo Slice alone; open squares, AHISS; open triangles, AHISS restricted to the $\delta = 14°$ strip. Solid squares show the mass function derived when no corrections are made for large scale structure. The dotted curve shows a Schechter function with $\alpha = -1.2$ suggested by ZBSS, and the dashed curve is the functional form of the faint-end turn-up found by Loveday (1997) for optical sources.