Mapping Dark Atomic and Molecular Gas in the Galaxy

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limit but above that for dark H2 (Snow & McCall 2006). $T_B(H~{\rm I})=20$ K. $N_{\rm HI}(t<1)\sim8x10^{19}~{\rm cm}^2,$ while multiplying the ON-OFF 100µm intensity by $1x10^{20}~{\rm cm}^2$ / MJy/sr (Reach et al. 1-0 emission (lower right; Dame, private comm.); the contour is $T_B(H)= 20 \text{ K}$. $N_{HI}(\tau << 1) \sim 8 \times 10^{19} \text{ cm}^2$, while multiplying the 1994) yields N_H(dust) ~ 5x10²⁰ cm⁻², near the ¹²CO self-shielding Figure 3. Prominent dark-gas filament in Arecibo narrow-line H I

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