























## 仮説

Down sizing シールディング
小質量銀河の下限値 光蒸発

## 変化するUV field @ 0<z<5

QSO proximity effect  $I_{\nu_{L}} = 10^{-21\pm0.5} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ str}^{-1} \text{ Hz}^{-1}$  (2 ≤ z ≤ 4) Bajtlik, Duncan & Ostriker 1988; Giallongo et al. 1996  $I_{\nu_{L}} = 10^{-23} - 10^{-22} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ str}^{-1} \text{ Hz}^{-1}$  (0.03 ≤ z ≤ 1) Scott et al.2002, Kulkarni & Fall 1996 Shape truncation of HI at the edge of spirals  $I_{\nu_{L}} = 10^{-24} - 10^{-23} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ str}^{-1} \text{ Hz}^{-1}$  (z = 0) Maloney 1993, Colberi & Salpeter 1993, Dove & Shull 1994 H emission from HI cloud  $I_{\nu_{L}} < 3.8 \times 10^{-23} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ str}^{-1} \text{ Hz}^{-1}$  (z = 0) e.g. Weymann et al 2001















