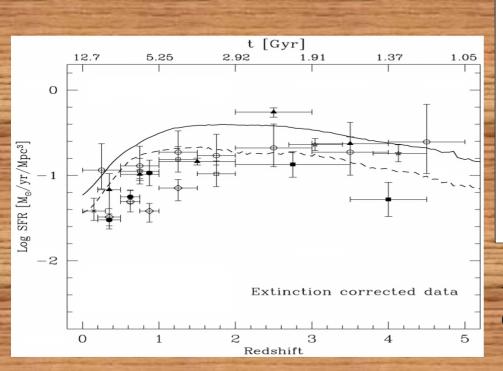
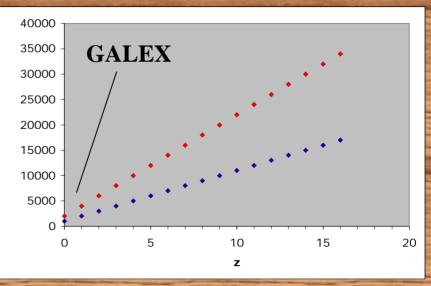
## Close multi-λ Cooperations: Why do we need that for Galaxies?

- ELT's will mostly work in the rest-frame UV regime
- That is exactly what GALEX is observing

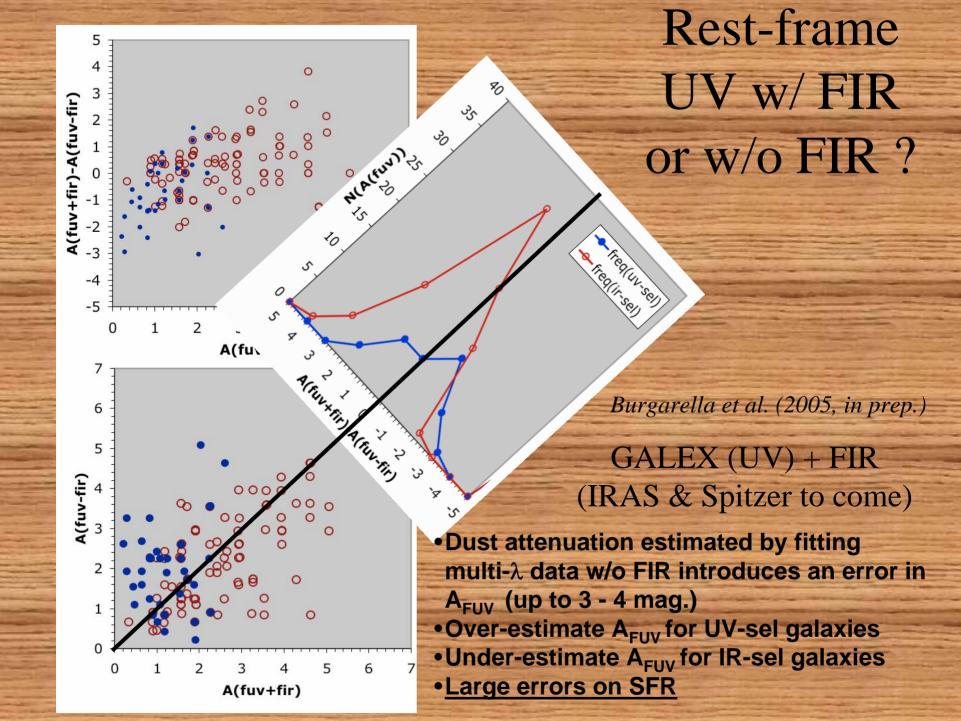




Assuming an average dust correction (Calzetti et al. 1994)

## Large sample of galaxies observed in rest-frame UV with large amount of complementary data

QuickTime™ et un décompresseur sont requis pour visionner cette image.



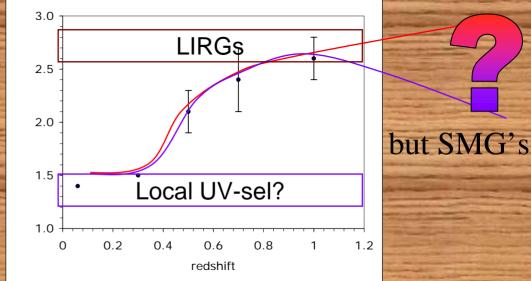
## Evolution of the mean FUV dust attenuation from z=0 to z=1

Buat et al. (2005, in prep.)

Z	ρ(dust) (L <sub>0</sub> Mpc <sup>-3</sup> )	ρ(FUV) (L <sub>0</sub> Mpc <sup>-3</sup> )	ρ(dust)/ρ(FUV)	A(FUV) (mag)
0.06	$8 \times 10^7$	$1.8 \times 10^7$	4.4	1.4
0.3	$3.8 \times 10^{7}$	$18 - 22.4 \times 10^7$	5.8 - 4.8	1.5
0.5	$4.1 \times 10^{7}$	$35 - 59 \times 10^7$	8.5 - 14.4	1.9 - 2.3
0.7	$7.7 \times 10^{7}$	$88 - 175 \times 10^7$	11 - 22.7	2.1 - 2.7
1.	$6.9 \times 10^{7}$	$117 - 175 \times 10^7$	17 - 25	2.4 - 2.8

On-going works from GALEX+Spitzer data ...

 $\begin{array}{l} \rho(dust) \;\; from \; Chary \; \& \; Elbaz \; (2001) \\ \rho(FUV) \; from \; Schiminovitch \; et \; al. \; (2004) \end{array}$ 



## Conclusion

• To study galaxies (and more specifically the star formation rate), we need to work in close cooperation with other large facilities and more specifically:

- **❖JWST**
- \*ALMA