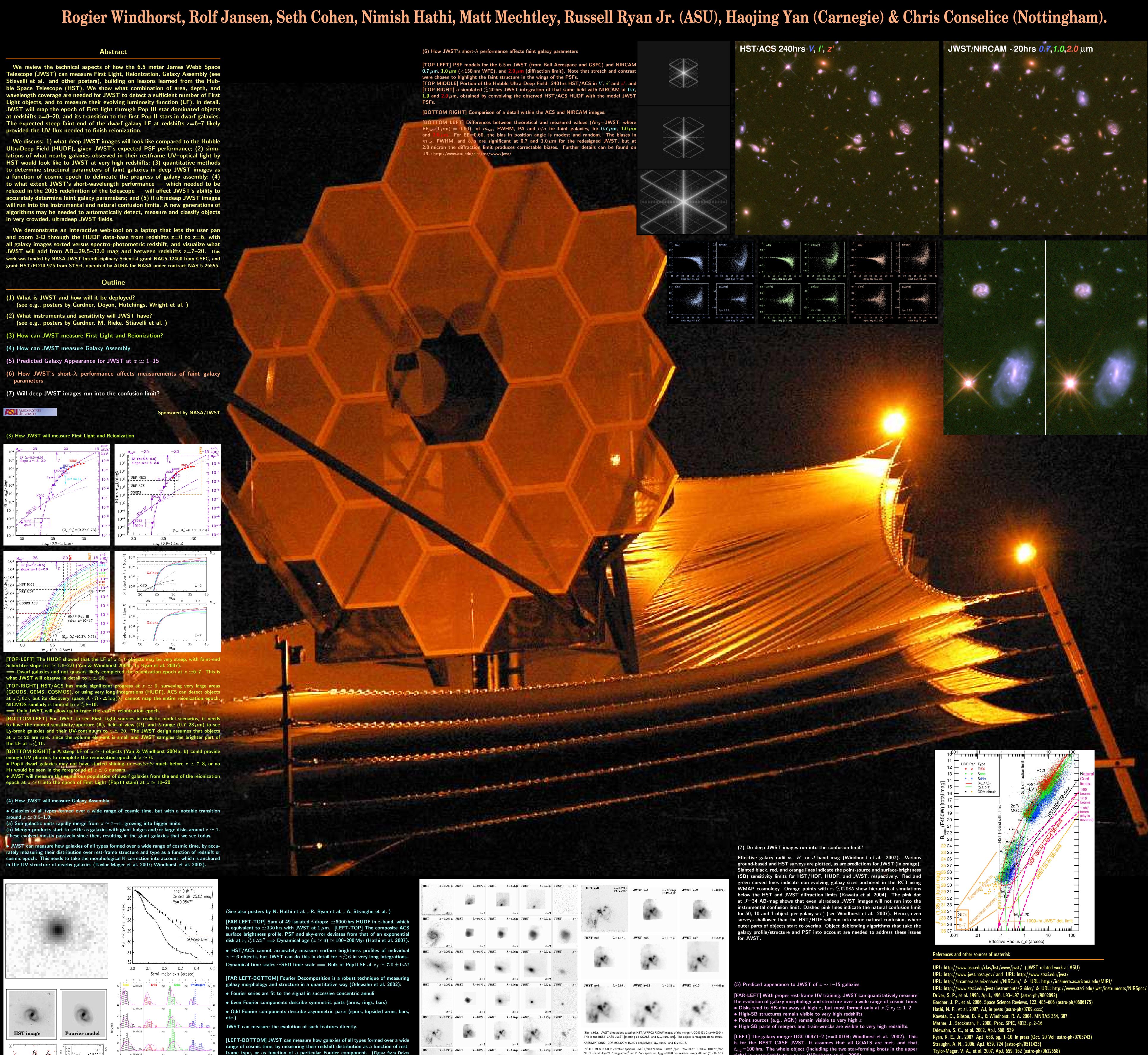
Technical aspects of how JWST can measure First Light, Reionization, and Galaxy Assembly.



right) is recognizable to $z \simeq 15$ (Windhorst et al. 2006).

(JWST $\lambda = 1.76 \mu m$, FWHM=0.084"), and z=7.0 (JWST $\lambda = 2.34 \mu m$, FWHM=0.098"). Row 3: z=9.0 the contrary, since galaxies formed through hierarchical merging, many SF-knots

JWST to its limits.

This does not imply that observing galaxies at $z\simeq 15$ with JWST will be easy. On

at $z\simeq 10$ –15 will be 10^1 – $10^4 imes$ less luminous than shown here, requiring to push

Row 1: z=0.0 (HST λ =0.293 μ m, FWHM=0.04"), z=1.0 (JWST λ =0.586 μ m, FWHM=0.084"), and

• For this, the types must be well imaged for large samples from deep uniform, and

high-quality multi-wavelength images — which JWST can do.

z=2.0 (JWST λ =0.879 μ m, FWHM=0.084"). Row 2: z=3.0 (JWST λ =1.17 μ m, FWHM=0.084"), z=5.

(JWST λ =2.93 μ m, FWHM=0.122"), z=12.0 (JWST λ =3.81 μ m, FWHM=0.160"), and z=15.0 (JWS

 λ =4.69 μ m, FWHM=0.197 $^{\prime\prime}$)

Windhorst, R. A., et al. 2002, ApJS, 143, 113

Windhorst, R. A., et al. 2006, New Astron. Rev., Vol. 50, p. 113

Yan, H. & Windhorst, R.A. 2004, ApJL, 600, L1; & — 2004, ApJL, 612, L93

Windhorst, R. A., et al. 2007, Advances in Space Research, 9163, in press (astro-ph/0703171)