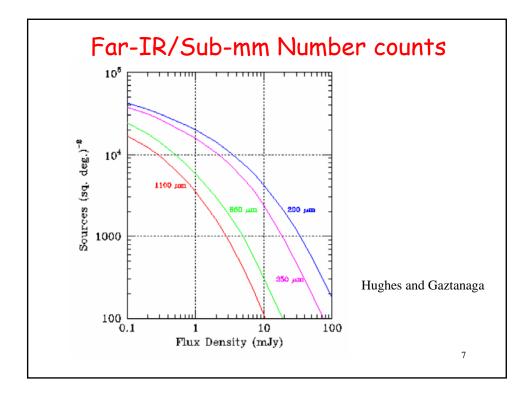
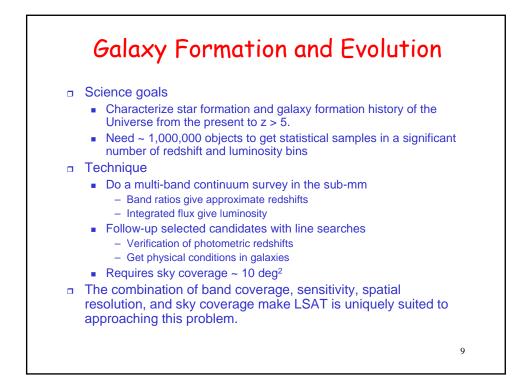
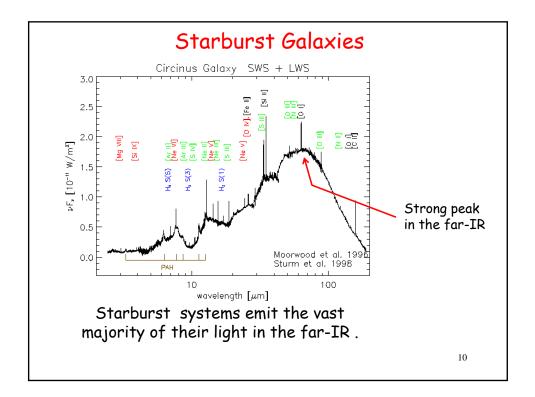


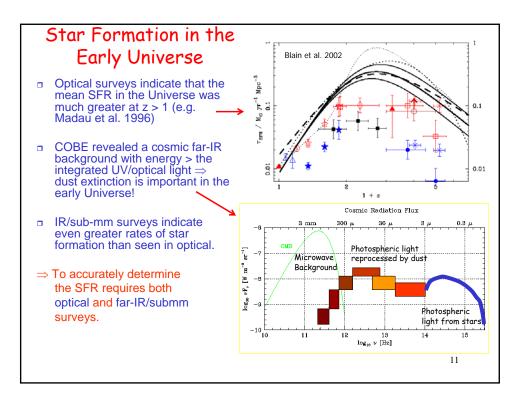
Important Requirements									
Sensitivity Image quality									
 Confusion 	 Affects sensitivity 								
Emissivity	□ Field-of-View								
Table 2.1 FIR/Submm Confusion Limits									
Telescope/ λ)	$\frac{1}{\Gamma elescope/\lambda} \qquad \qquad \Omega_b \qquad \text{counts} \text{confusion limit}$								
	$10^{-6} \mathrm{deg}^2$	$10^3 \mathrm{~deg^{-2}}$	mJy						
JCMT/870 μm	19.8	5	1.2						
LMT/1.1 mm	4.3	23	0.07						
APEX/450 μm	7.7	13	0.2						
SIRTF/160 μm	197. 0.5 60								
Herschel/250 $\mu {\rm m}$	Herschel/250 μm 28. 3.5 11								
Atacama/870 μm	6.7	15	0.2						
Atacama/350 $\mu {\rm m}$	1.08	93	< 0.01						
Atacama/200 μm	0.35	286	$\ll 0.01$						

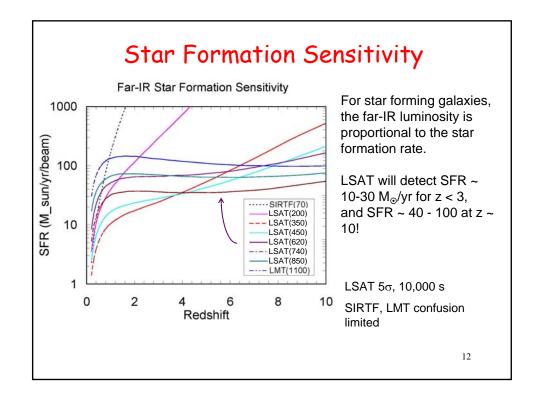


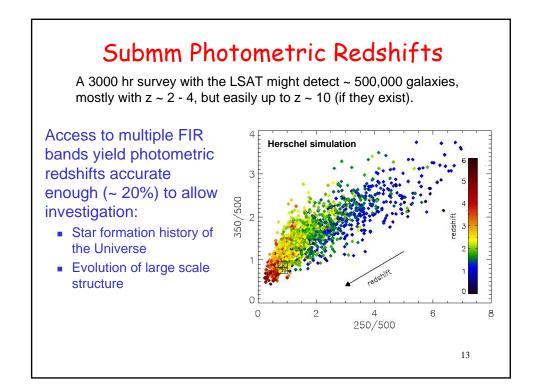
 Galaxy Formation and Evolution ISM, Disks, Star and Planet Forming Regions CMB and the SZE Solar System Studies KBOs and Irregular Satellites 						
	KBO	s and Irregular Sate	llites			
	KBO Group	s and Irregular Sate	llites Group Chair			
		<u> </u>				
	Group	Торіс	Group Chair			
	Group S1	Topic Solar System	Group Chair Don Campbell			

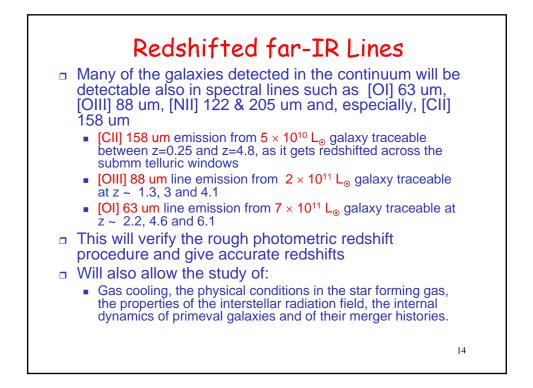


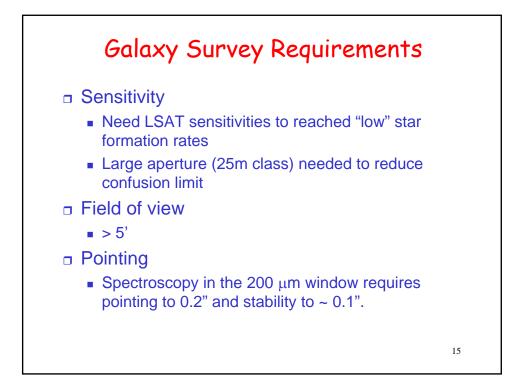


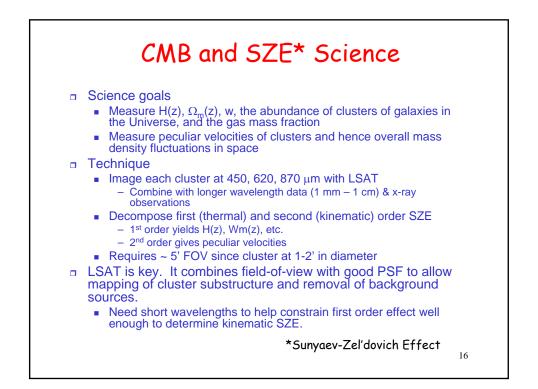


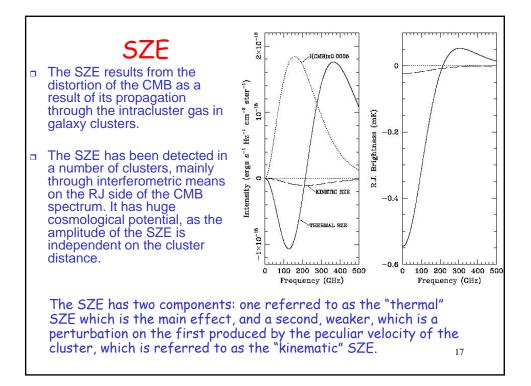


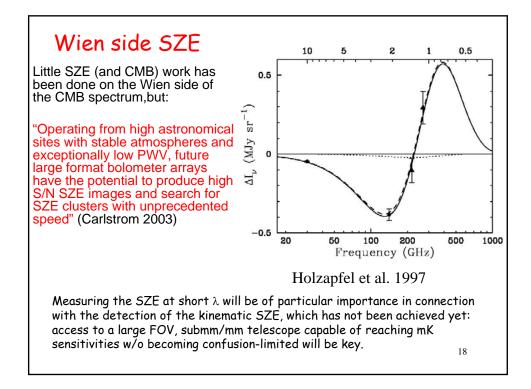


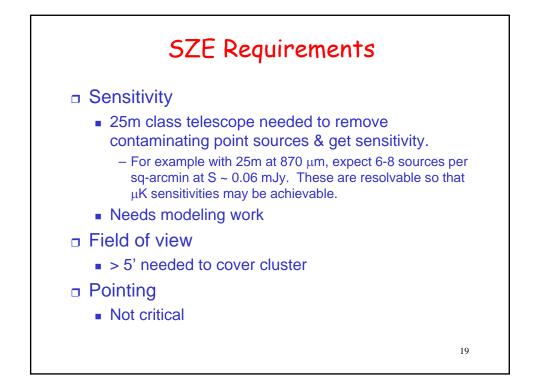


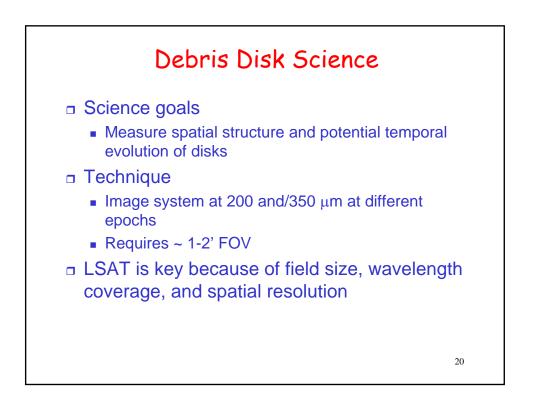


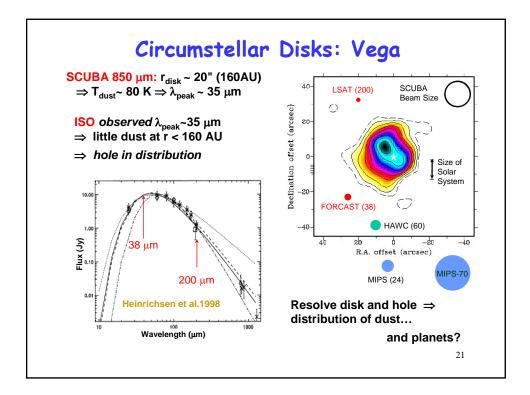


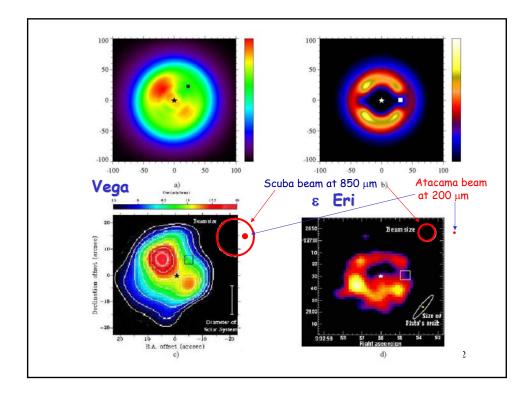


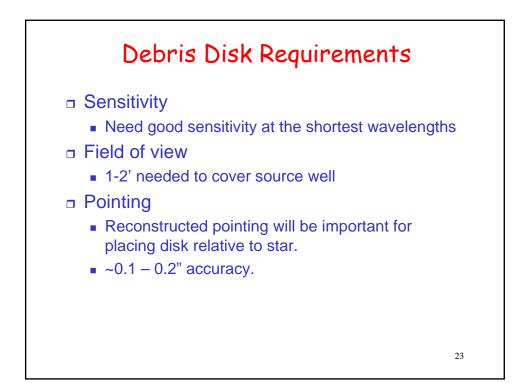


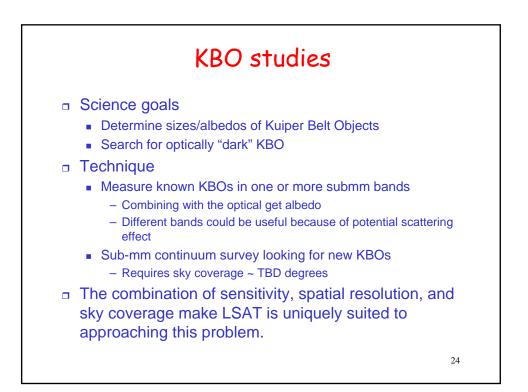


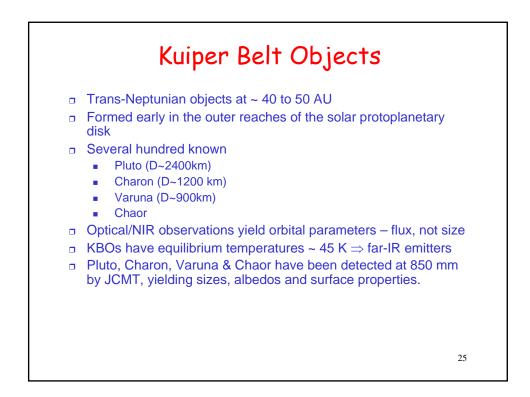


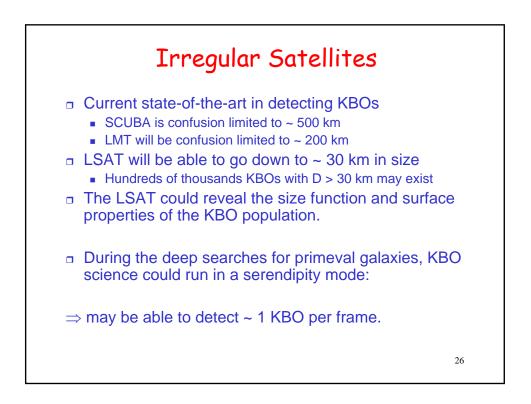


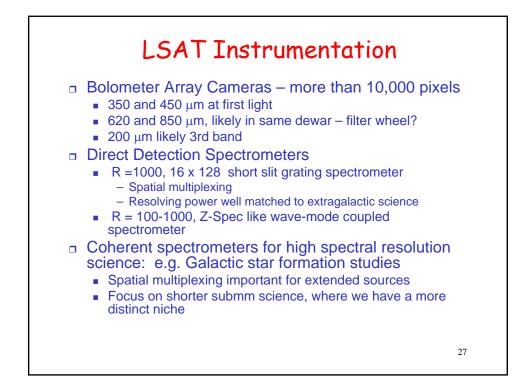


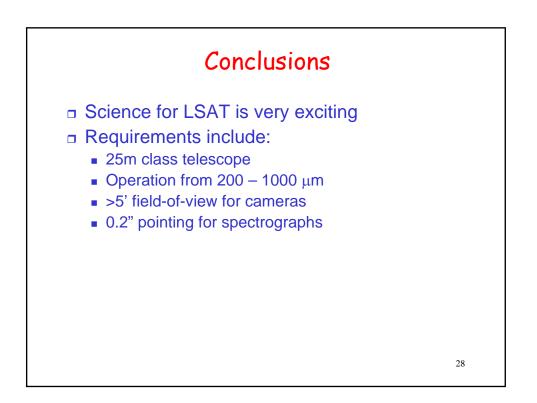












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Sensitivity Comparisons												
	 Surprisingly enough, in the continuum, the LSAT is competitive with ALMA in raw point source sensitivity. At 350 um with PWV_{LSAT} = 0.5 mm, PWV_{ALMA} = 0.8 mm: 											
	$\Delta F \propto ((T_{rec} + T_{bk}) \cdot \sqrt{BW}) \div ((\eta_{sky} \cdot \eta_{tel}) \cdot A_{tel} \cdot n_{tel})$											
		η_{skv}	η_{tel}	T _{rec} +T _{bk}	BW	A _{tel}	n _{tel}					
	LSAT	0.53	0.83	150	100	490	1					
	ALMA	0.35	0.60	400	8	113	64					
			ΔF_{I}	$_{\rm SAT}/\Delta F_{\rm ALMA}$	~ 3/4							
	 The large format arrays with single dish observatories ensure the mapping speed is much higher 											
	 Of course, no single disk will approach the angular resolution of ALMA 											
	 LSAT finds the interesting sources for which ALMA can obtain vital spatial information return ³⁰ 											

