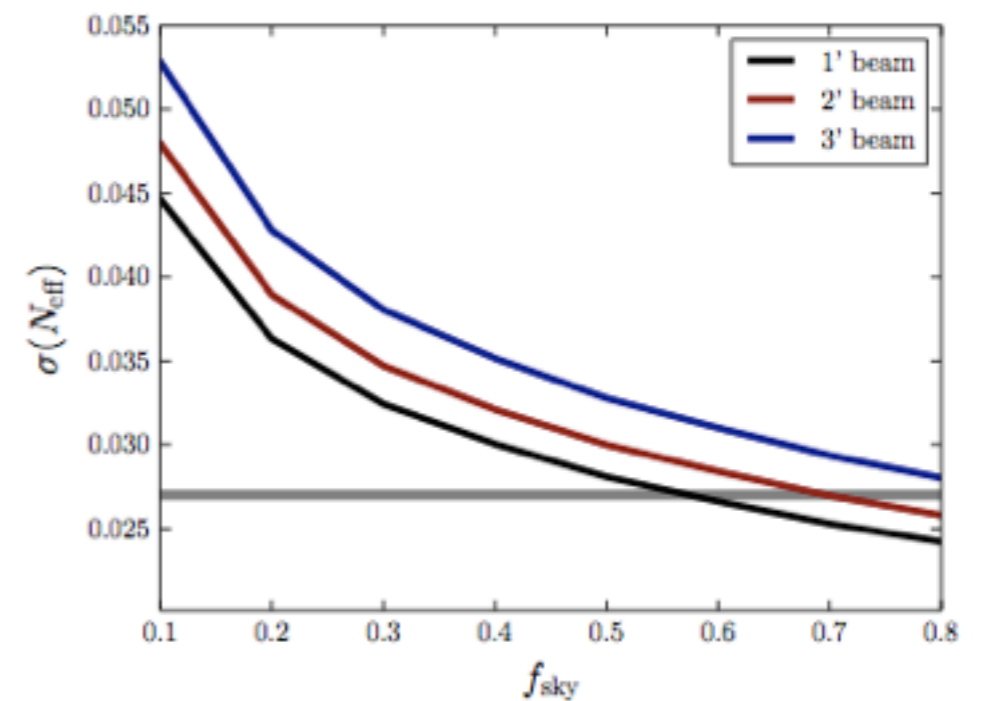
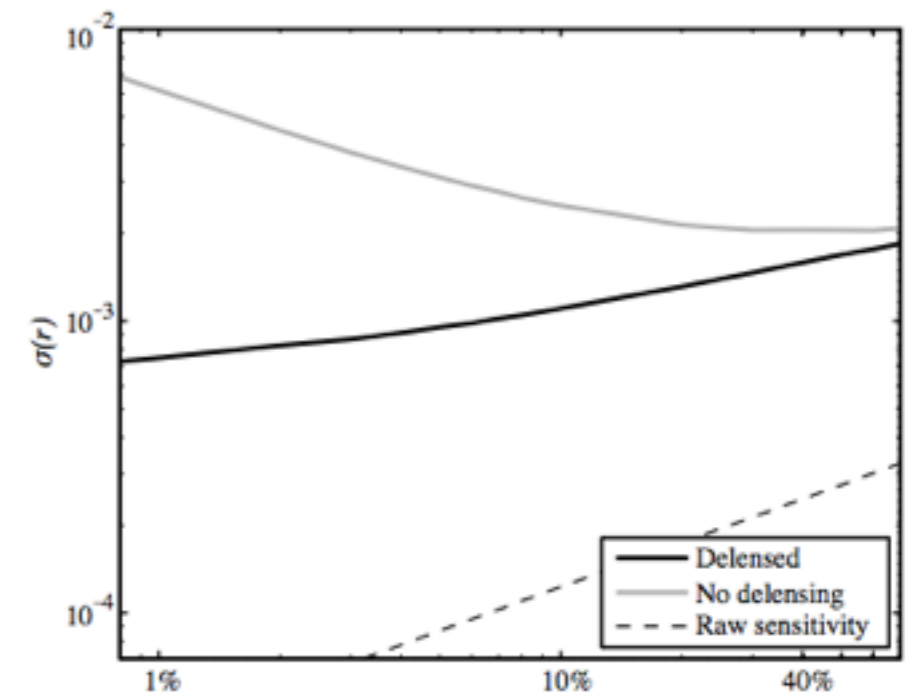


What's going to be in the CDT report: Surveys

- Two surveys:
 - $< \sim 5\%$ of the sky for r (includes low-res and delensing)
 - $\sim 40\%$ of the sky for N_{eff} , M_ν , etc. (med/high-res only)
- Some outstanding questions:
 - More sky to get better $\sigma(N_{\text{eff}})$?
 - Note $f_{\text{sky}} > 40\%$ probably requires Northern site.
 - What about sky fraction dependence of “NSF science”?
 - Effect of foregrounds on optimal f_{sky} for r
 - sims do not currently include worsening of FG for larger f_{sky} or limits on delensing efficiency from FG (these pull in opposite directions)

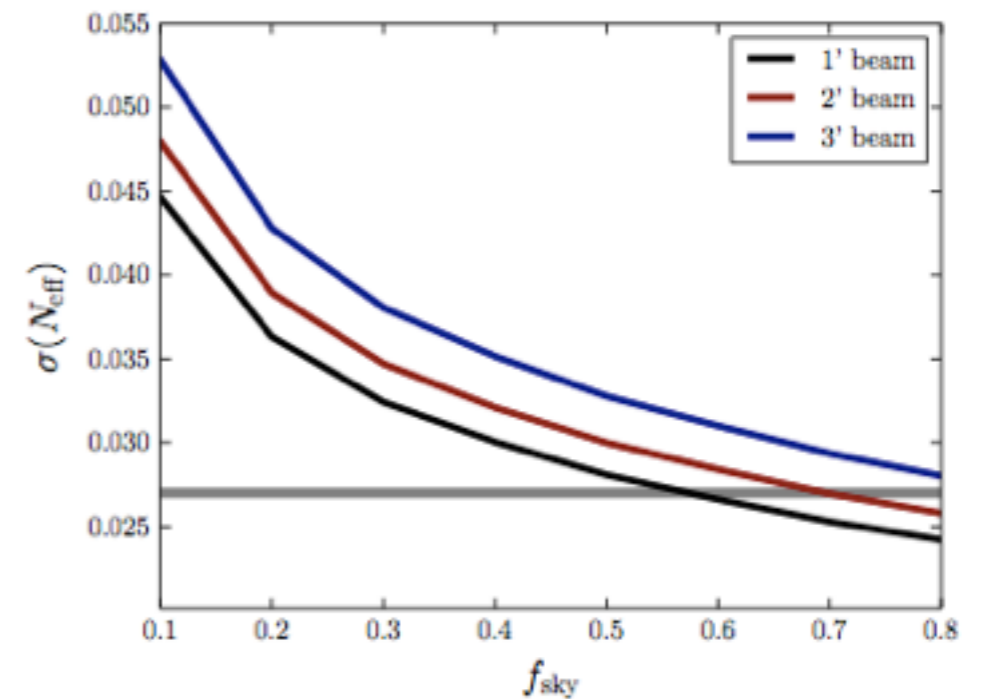
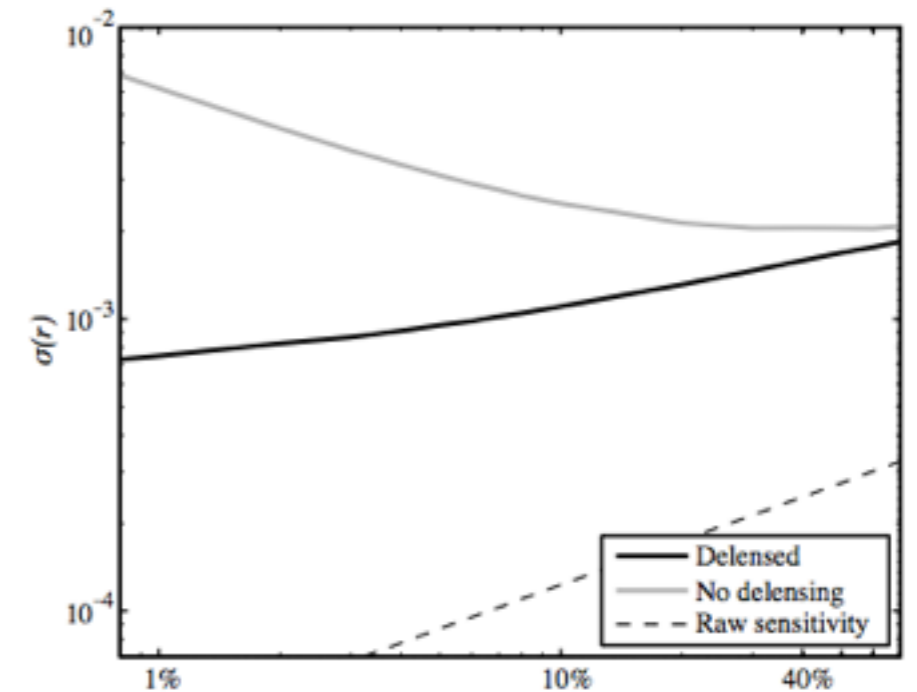


both plots from CMB-S4 Science Book

What's going to be in the CDT report:

Surveys

- **NOTE:** This is basically what we already decided in the Science Book
 - CDT did explore other options but settled back on this
 - explored more parameter space in foreground complexity, systematics, knowledge of beams, among others
- What instrument configuration do we use to produce these? **See Adrian's talk after lunch.**



both plots from CMB-S4 Science Book