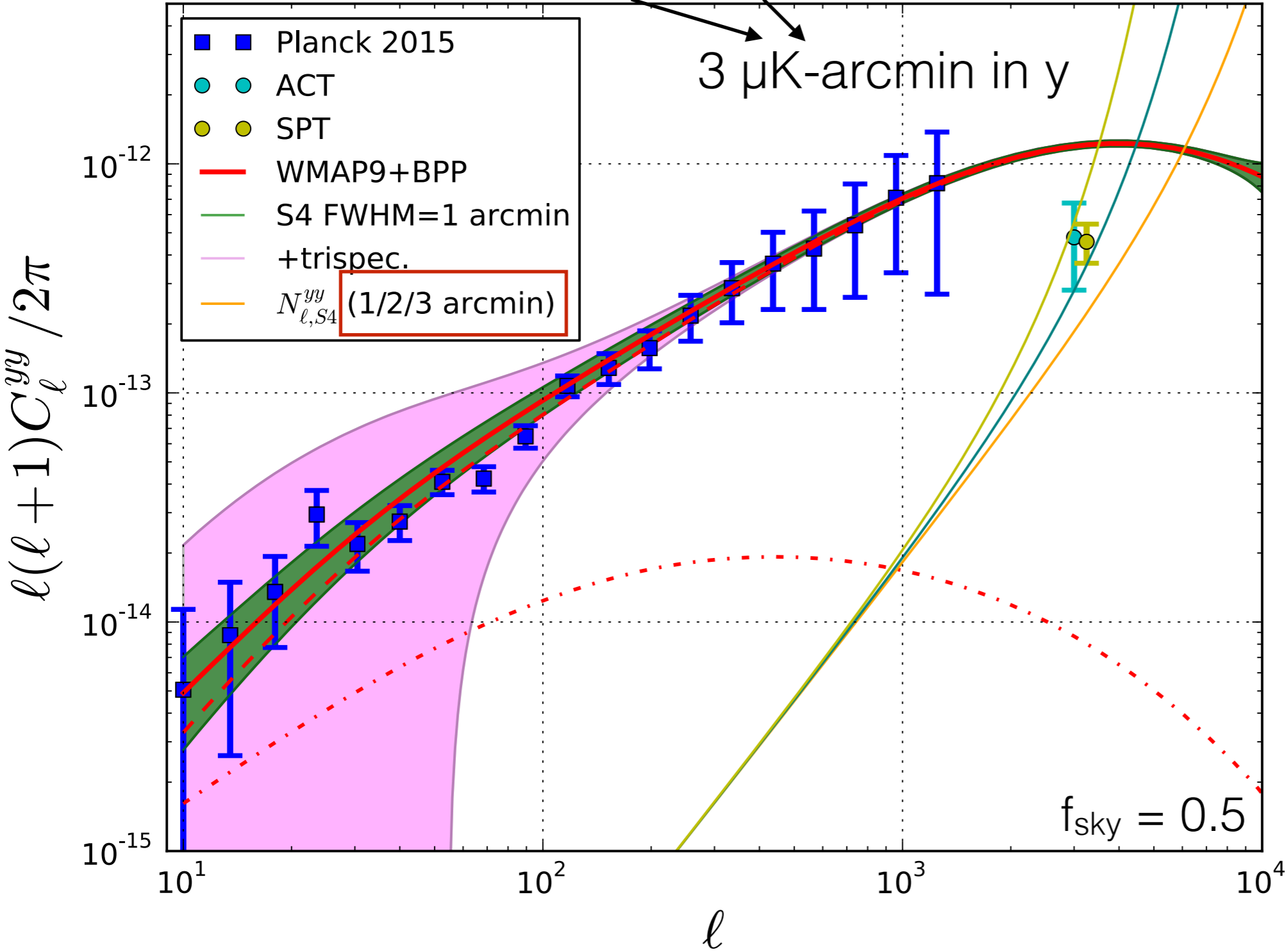


Thermal SZ Map / Power Spectrum

assumptions: 6 freqs., 1 $\mu\text{K-arcmin}$ at 150 GHz



S/N
 2500 (1')
 1900 (2')
 1500 (3')

$\sim \sigma_8^7$

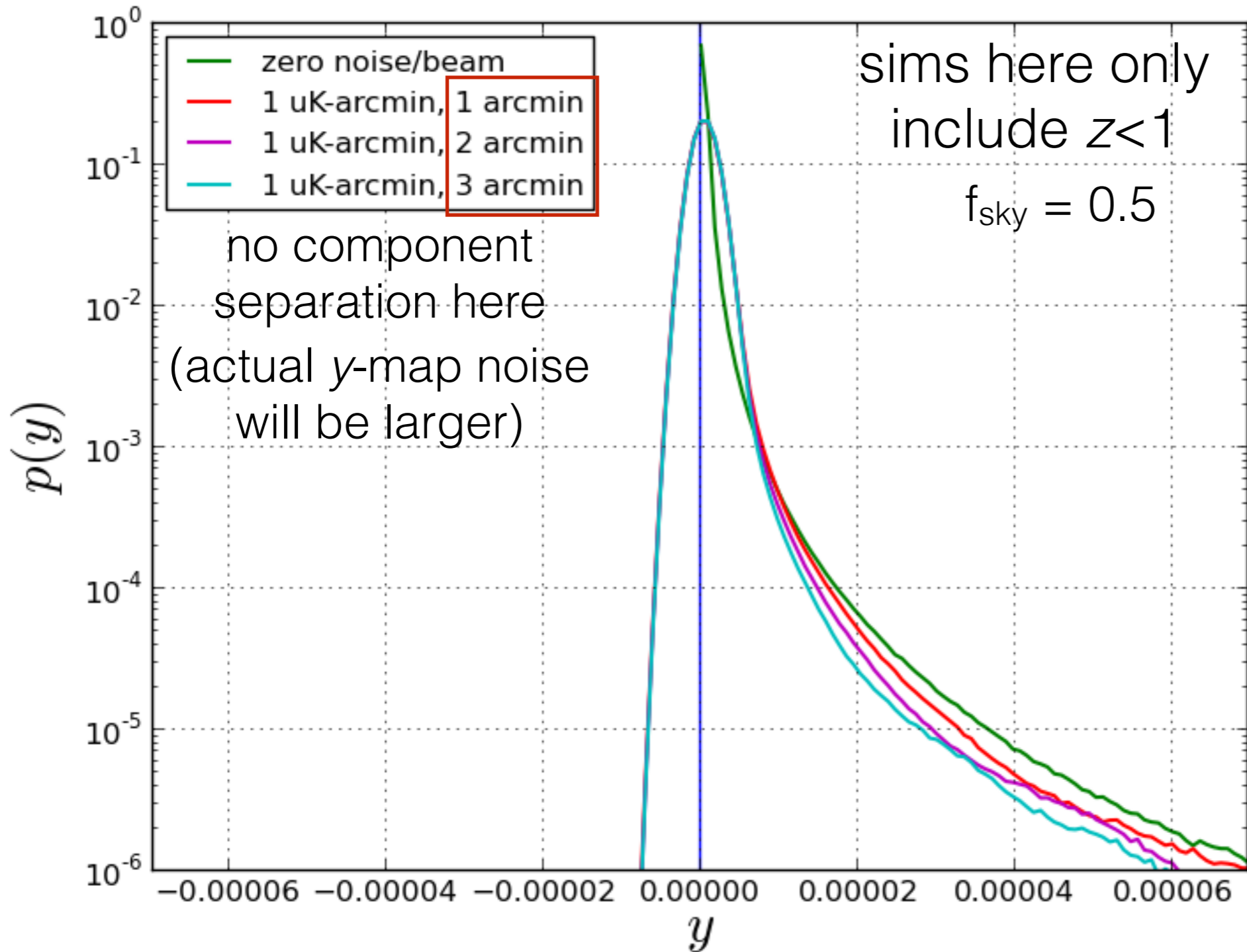
$\sigma(\sigma_8)/\sigma_8$
 0.006% (1')
 0.008% (2')
 0.01% (3')

(+ precise electron pressure profile)

c.f. Komatsu & Seljak (2002); JCH & Pajer (2013); Planck (2015)

Higher-Order Statistics

tSZ skewness, kurtosis, ... PDF



Impact of Resolution:

$\langle y^3 \rangle$ signal loss:
35%, 57%, 70%

$\langle y^4 \rangle$ signal loss:
60%, 80%, 90%

$\langle y^5 \rangle$ signal loss:
75%, 90%, 95%