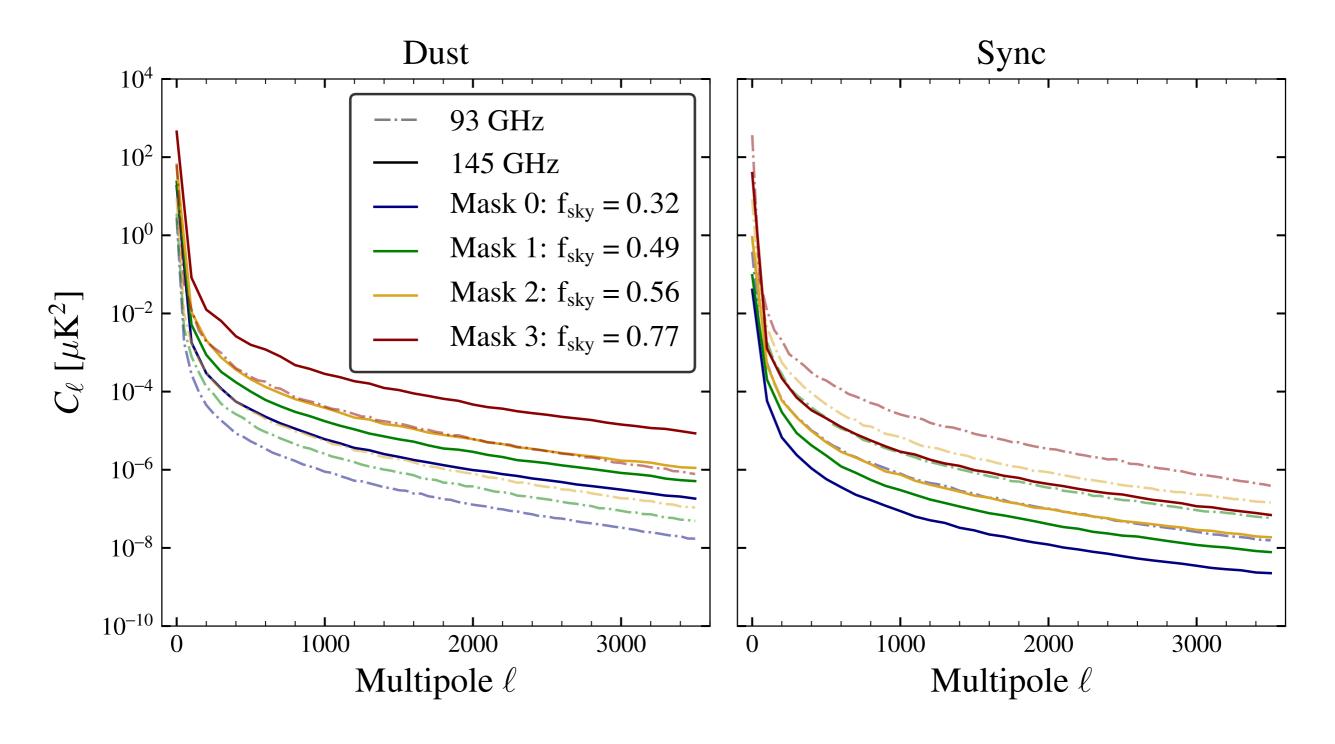
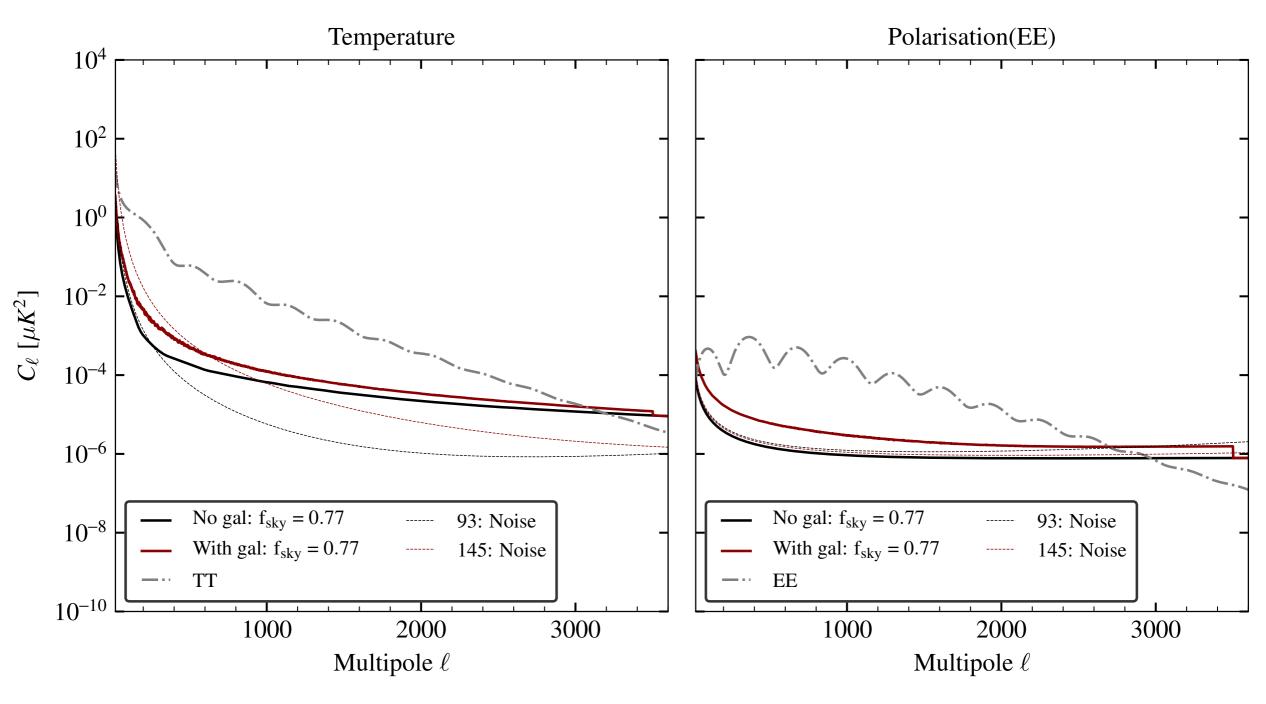


# Dust / Sync TT power spectra



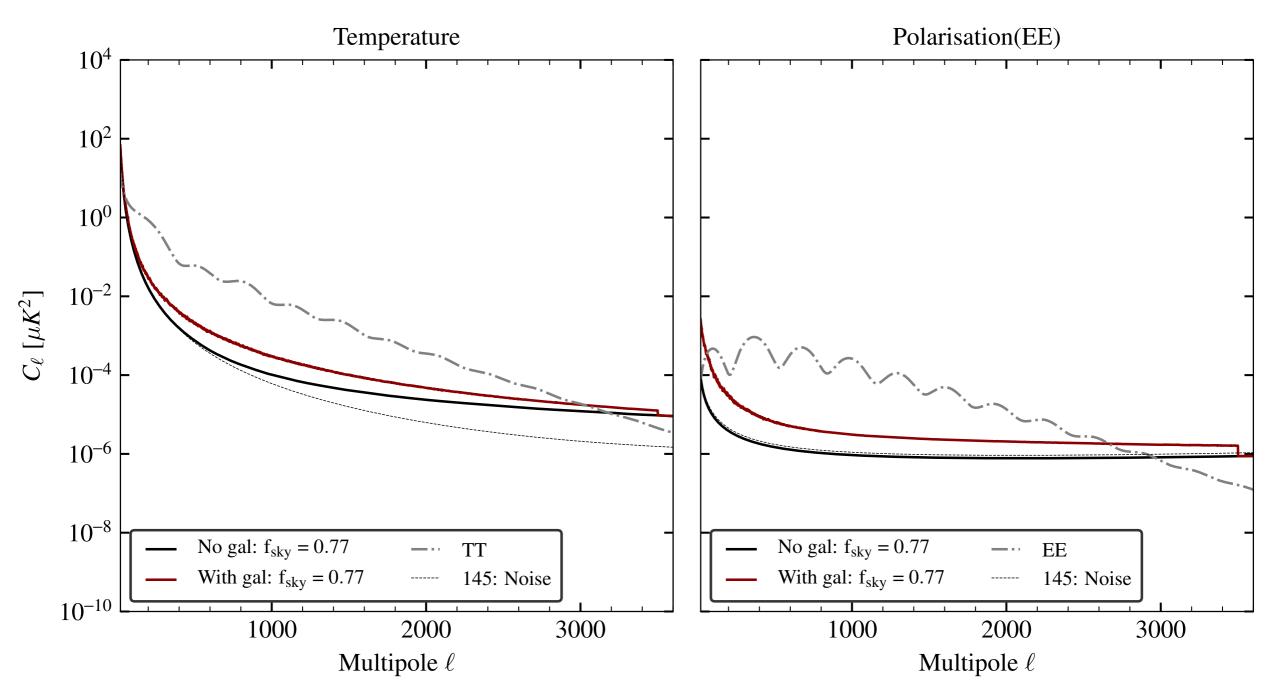
# ILC curves - W/o vs w/ galaxy (4 bands)

without\_vs\_with\_galaxy\_mask3\_93-145-225-278



# ILC curves - W/o vs w/ galaxy (3 bands)

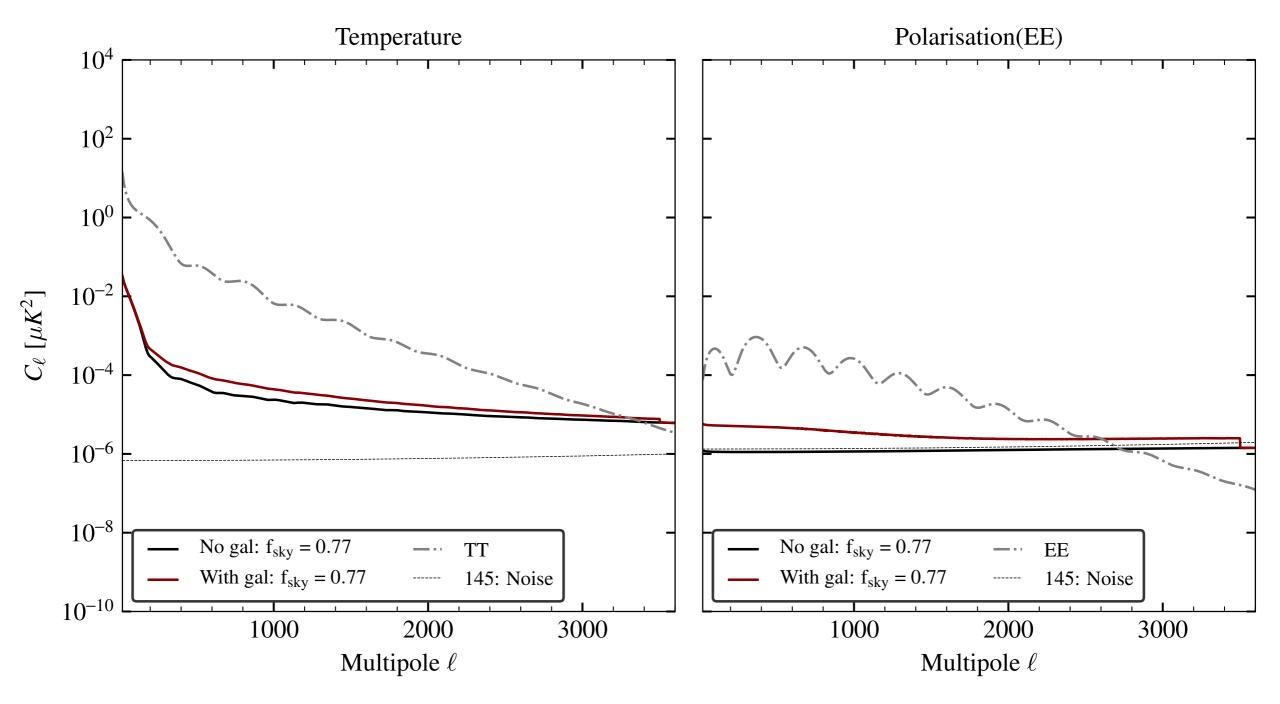
without\_vs\_with\_galaxy\_mask3\_145-225-278



**Comparing previous slide with this:** Removing 90 GHz channel enhances the low-\ell noise. But it is mostly attributed to 1/f noise for TT. For pol, however, this should not be true.

# ILC curves - W/o vs w/ galaxy (4 bands: No atm noise)

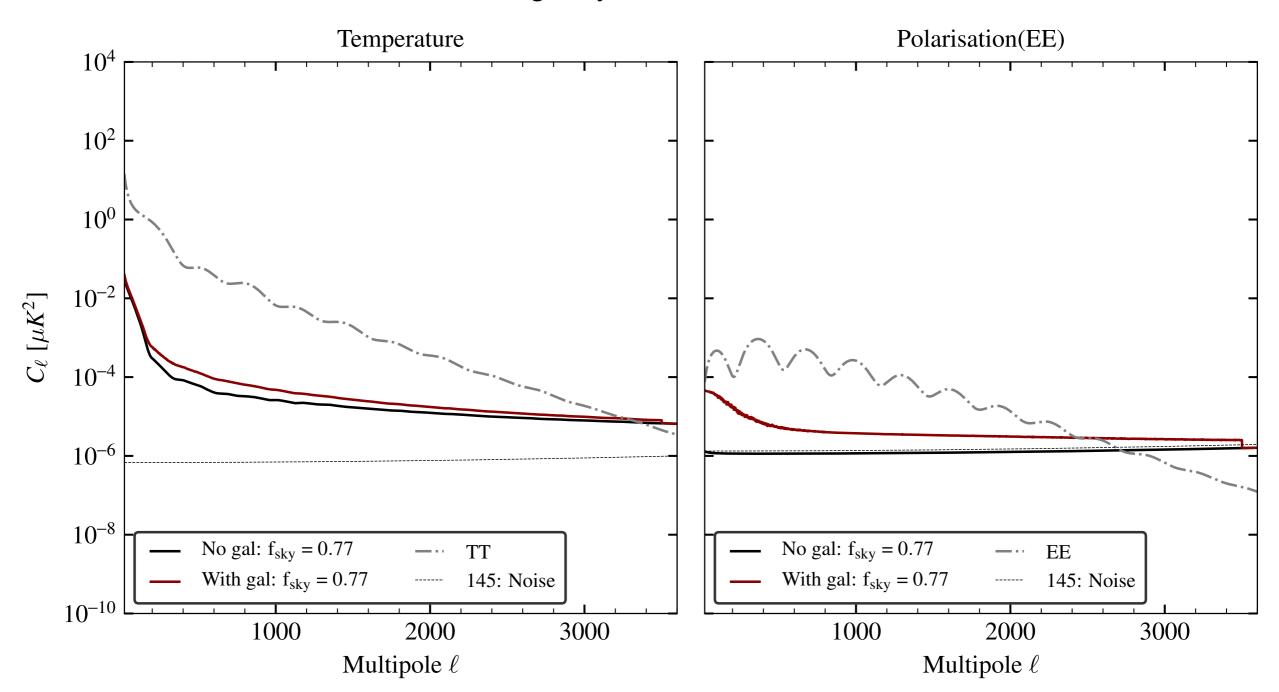
without\_vs\_with\_galaxy\_mask3\_93-145-225-278\_noatmnoise



**Removed atmospheric noise now:** The low-\ell noise drops here (4 bands) compared to previous slide (3 bands). It is only slightly lower than slide-4 (4 bands with atmosphere + gal).

## ILC curves - W/o vs w/ galaxy (3 bands: No atm noise)

without\_vs\_with\_galaxy\_mask3\_145-225-278\_noatmnoise



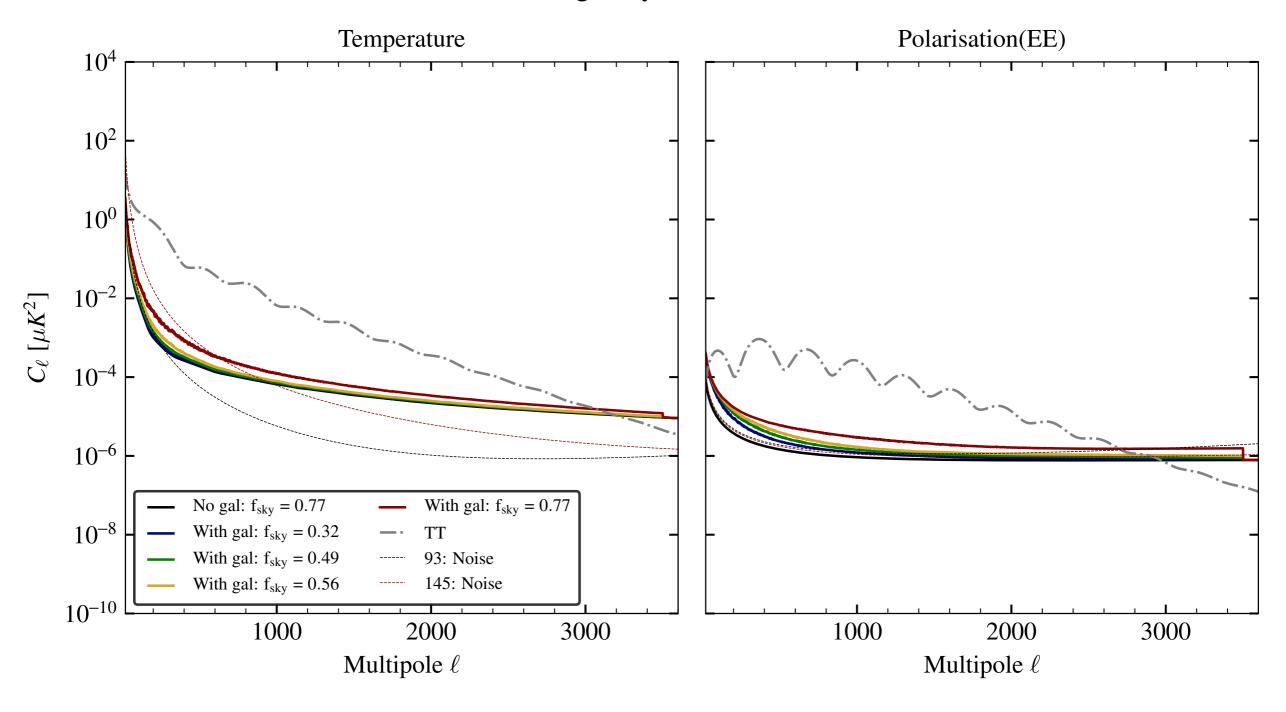
#### Removed atmospheric noise now:

As a further check, here we have only 3 bands (vs 4 bands in the previous slide). The difference on low-\ell noise for 4 vs 3 bands in the absence of atmospheric noise is lower than in the presence of atmospheric noise for TT.

For pol., atm. noise is parameterised with same \ell\_knee and slope in all bands. So, the difference here must come from 7 the removal of one band for MV (to reduce both noise and FG) combination.

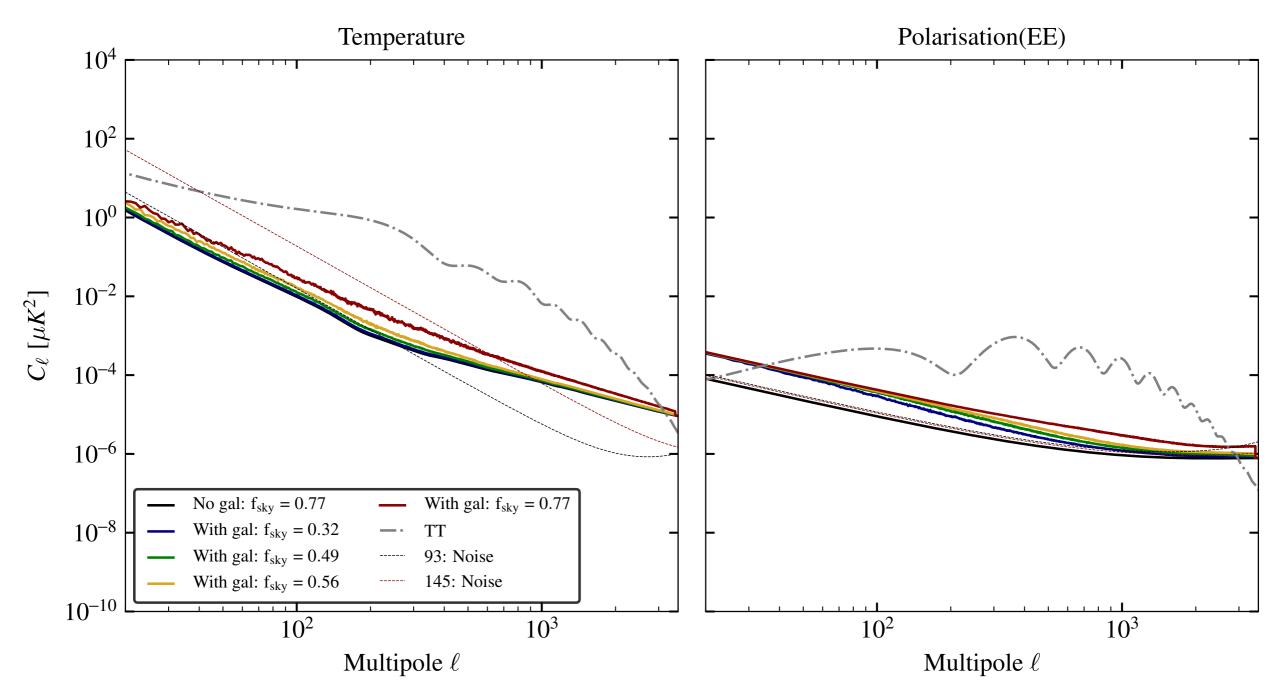
## ILC curves - W/o vs w/ galaxy (4 bands, different masks)

without\_vs\_with\_galaxy\_allmasks\_93-145-225-278



## ILC curves - W/o vs w/ galaxy (4 bands, different masks)

without\_vs\_with\_galaxy\_allmasks\_93-145-225-278



Same as previous slide but zooming the low-\ell region with log-x.

#### **Plots to show:**

- 1. W/ and W/o galaxy for sky = 0.77 (4 bands).
- 2. With 3 bands.
- 3. Point 1,2 again w/ and w/o 1/f noise.
- 4. Compare dust and sync. powers.
- 5. Different masks now.
- 6. SNR of TT and EE w/o cosmic variance.
- 7. SNR of TT and EE w/ cosmic variance.