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Direct measurement of feedback and baryon effects in lensing with the CMB

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The CMB provides a clean and direct way to measure the gas distribution in the outskirts of galaxies and clusters, and therefore measure the effect of feedback. Combining pressure (from tSZ), density (from kSZ) and lensing data, we can reconstruct the full thermodynamic properties of the halo and test hydrodynamical simulations. Moreover, direct measurements of gas density are able to calibrate baryon effects in weak lensing. I will discuss current measurements with BOSS and ACT, and if permitted by the collaborations, ongoing work with the latest ACT and DESI data, which represent a large improvement over the BOSS measurements and the current state-of-the-art.

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