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## Joint constraints on the galaxy cluster pressure profile from Planck and SPT-SZ

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We present the average pressure profile of the 2500d South Pole Telescope galaxy cluster catalogue measured in the Planck and SPT-SZ data jointly. The joint measurement is performed in Fourier space for the first time and takes advantage of the high resolution of SPT (1.75 arcmin beam) and the observation of large angular scales by Planck ( $> 30$  arcmin) simultaneously. The redshift leverage of the catalogue allows to study the evolution of the profile. We also constrain the profile shape in the outskirts.

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