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Cosmological constraint with new Planck tSZ map

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The thermal Sunyaev-Zeldovich (tSZ) effect is produced by the inverse Compton scattering of cosmic microwave background (CMB) photons by hot electrons, particularly in galaxies clusters. It has been used as a powerful tool to constrain the cosmological parameters given its particular sensitivity to σ_8 and ω_m .

I produced a new all-sky tSZ map constructed from the latest Planck PR4 data released in 2020 with the MILCA algorithm. It exhibits $\sim 7\%$ less noise and less survey strips than the one produced by the Planck collaboration in 2015. I will present the result of the cosmological analysis with this new tSZ map.

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