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Map-level Beam Treatment

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Traditionally beams are treated in the harmonic space. However, it imposes several disadvantages like inability to treat non-spherical beams, always requiring an approximation. In the context of Simons Observatory experiment, we demonstrate a different approach based on treating the beams on a map-level. Accelerated by JAX and powered by FURAX software, it allows to circumvent the limitations of harmonic analysis and open new straight-forward ways to look on the non-spherical beams, far-sidelobes and polarization effects.

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