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Observer sphere lensing

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For Galactic propagation studies with forward-tracking, a choice between realism (lack of artefacts in the arrival direction distribution from finite observer sizes) and statistics must be made. An approach to overcome this dilemma called *observer sphere lensing*, that utilises the known Galactic lensing approach for small volumes in the vicinity of Earth, will be introduced. Results from preliminary studies comparing the improvement of the arrival direction distribution when employing this method will be presented and its applicability for different cases will be discussed.

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