The Hanle effect : beyond the single scattering approximation

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Inversion codes for scattering problems and the Hanle effect
usually employ the single scattering approximation.
It avoids having to solve a polarized radiative transfer equation.
It will be shown how multiple (more than one) scattering
can be taken into account in the calculation of the polarization
while still handling only non-polarized transfer equations.

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