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Interactions of high-order Bessel vortex beam with a multilayered chiral sphere: scattering and orbital angular momentum spectrum analysis

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Highlights

- The analytical solution to the interactions between an inhomogeneous optically active spherical particle and a high-order Bessel vortex beam are investigated.
- The internal field, near-surface field and scattered field are calculated numerically.

• Results indicate the OAM spectrum spreads significantly with the increase of the incident beam center position shift from the axis.



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