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Title: Diffraction Effects in Semiclassical Scattering

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Abstract

1. Critical effects in semiclassical scattering; 2. Diffraction and coronae; 3. The rainbow; 4. The glory; 5. Mie solution and resonances; 6. Complex

angular momentum; 7. Scattering by an impenetrable sphere; 8. Diffraction as tunnelling; 9. The Debye expansion; 10. Theory of the rainbow; 11. Theory of the glory; 12. Near-critical scattering; 13. Average cross sections; 14. Orbiting and resonances; 15. Macroscopic applications; 16. Applications to atomic, nuclear and particle physics; References; Index.

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