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Nota di contenuto	1. Group structure. Preliminaries -- 2. Induced representations. Definition and various realizations -- 3. Further properties of the elementary representations -- 4. Intertwining operators: X-space realization -- 5. Momentum space expansion of the intertwining distribution and positivity -- 6. Nondecomposable representations and intertwining differential operators -- 7. Discrete and general properties of the discrete series -- 8. The Plancherel theorem. Concluding remarks -- 9. The Kronecker product of two elementary representations -- 10. Construction of the Clebsch Gordan expansion -- 11. Special cases and further properties of the expansion formula -- 12. Renormalizable models of self-interacting scalar fields. Dynamical equations for Green functions -- 13. Invariance and invariant solutions of the dynamical equations. Conformal partial wave expansion for the Euclidean Green functions -- 14. Implications of the dynamical equations. Pole structure of conformal partial waves -- 15. Another form of the conformal expansion, involving a Minkowski momentum

space integral. The Q-kernels -- 16. The problem of crossing symmetry. Concluding remarks.

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