

Turkish Journal of Physics

Turkish Journal

of

Physics

Multiparticle Equations for Scalar Particles

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Abstract: Multiparticle equations for scalar particles are derived in the framework of the Lagrangian formalism of field theory as a consequence of the Dyson-Schwinger equations for the generating functional of Green's functions. The general form of the n-particle equation is determined. The formula for the kernel of the equation is obtained. It makes possible to use the functional methods for the investigation of the equation. It is proven that the equation is correct in the lower orders for two-particle Green's functions.

Turk. J. Phys., **25**, (2001), 79-85.

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