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Like other interacting field  
theories, Quantum

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field theory of electrons, positrons, and photons — suffers from ultraviolet divergences, which are removed in the process of regularization and subsequent renormalization. In perturbation theory, one regularizes individual

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with point interactions that  
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low-energy expansion:  $\delta(k) = -1/a$

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$\frac{1}{2} r_e k^2 + \dots$  a = scattering  
length  $r_e$  = effective range  
Effective Field Theory next most  
important:  $r_e$  effects suppressed  
by  $k^2 \times \text{range}^2$  most important  
parameter:  $a$  34

*Effective Field Theory and*

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Ultracold atoms have a wide range of applications - including improved atomic clocks, gyroscopes, and sensing of gravitational and magnetic fields - because they are extremely sensitive to external fields and

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forces. The majority of ultracold atom experiments use a 2-stage arrangement: atoms are first cooled from room temperature to  $\sim 1$  millikelvin in a vacuum chamber, then are transported to a neighbouring chamber where they are further cooled and

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*Research | Ultracold Quantum  
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The formation of ultracold molecules is a new and rapidly developing area in the physics of quantum degenerate gases. The

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aim of our research is to theoretically understand the dynamics of the association of molecules and its interplay with the bulk motion in trapped Bose-Einstein condensates and quantum degenerate two component Fermi gases.

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This thesis reports on a variety of calculations on cold and ultracold scattering, with a broad theme of how best to consider and understand complex systems in

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