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Like other interacting field theories, Quantum Electrodynamics (QED) — the field theory of electrons, positrons, and

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

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Ultracold quantum
gases and lattice
systems: quantum
Mathematical
...

Ultracold Atoms
construct EFT with
point interactions
that reproduces
low-energy
expansion low-
energy expansion:
 $\delta(k) = -1/a + \frac{1}{2} r e$
 $k^2 + \dots$ $a =$
scattering length r

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Effective Field
Theory next most

important: r_e

effects suppressed
by $k^2 \times \text{range}^2$

most important
parameter: $a^{-3/4}$

Effective Field

Theory and

Ultracold Atoms

Ultracold atoms

have a wide range

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of applications - including improved atomic clocks, gyroscopes, and sensing of gravitational and magnetic fields - because they are extremely sensitive to external fields and forces. The majority of ultracold atom experiments use a

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2-stage

arrangement:

atoms are first

cooled from room

temperature to ~ 1

millikelvin in a

vacuum chamber,

then are

transported to a

neighbouring

chamber where

they are further

cooled and probed.

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The formation of ultracold molecules

is a new and rapidly developing area in the physics of quantum degenerate gases.

The aim of our research is to theoretically understand the

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Physics

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.

Theoretical Physics

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of Molecules and
Quantum Systems

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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 simple ways.

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Firstly, we investigate quantum defect theory. We demonstrate that it is not only an excellent model for simple systems, but can also provide simple predictions of the of possible behaviours for complex systems,

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in particular for a
model of collisional
losses.

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