KWANTEACH van-tek

Experimental platform for training in quantum physics & engineering

Base module

Optical detection of magnetic resonance

Zeeman Effect

Hyperfine levels

A wide range of experiments

Base + Pulsed

Longitudinal relaxation time T1

Rabi oscillations

Transverse coherence time T2*

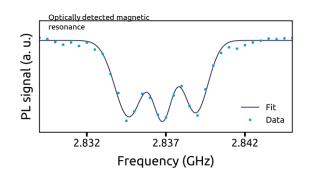
Dynamic decoupling: coherence time T2echo

> Saturation of a two-level system

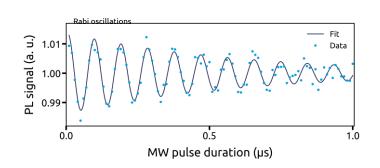


Measurement examples

Hyperfine levels

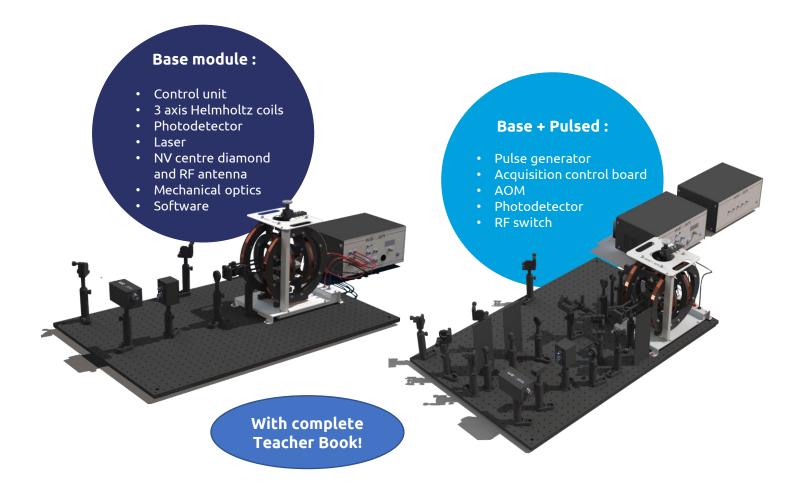


Rabi oscillations between two fine levels.





1 Base module - 1 Pulsed extension



Main Advantages

- Simple experimental implementation (no vacuum, no cryogenics ...)
- Allows great flexibility and manipulation, for example on optical alignments.
- Practical approach to complete the theoretical knowledge
- From **Bachelor** to **PhD** level
- Robust, evolutive, customizable...and more