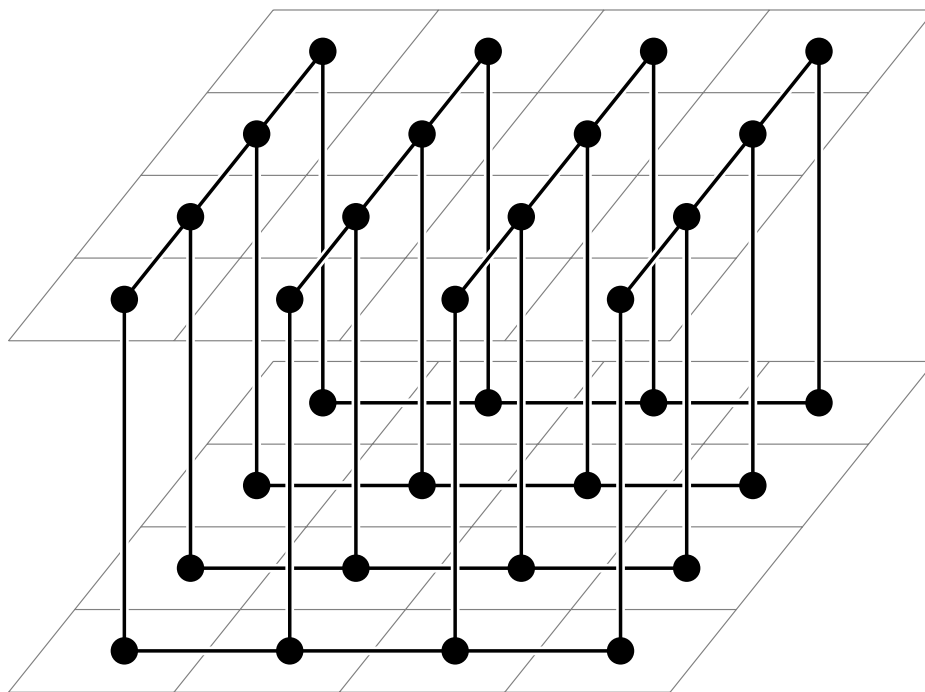


Docs





A fancy title

To calculate the horizontal position the kinematic differential equations are needed:

$$\dot{n} = u \cos \psi - v \sin \psi \quad (1)$$

$$\dot{e} = u \sin \psi + v \cos \psi \quad (2)$$

For small angles the following approximation can be used:

$$\dot{n} = u - v\delta_\psi \quad (3)$$

$$\dot{e} = u\delta_\psi + v \quad (4)$$

Fermat's Last Theorem

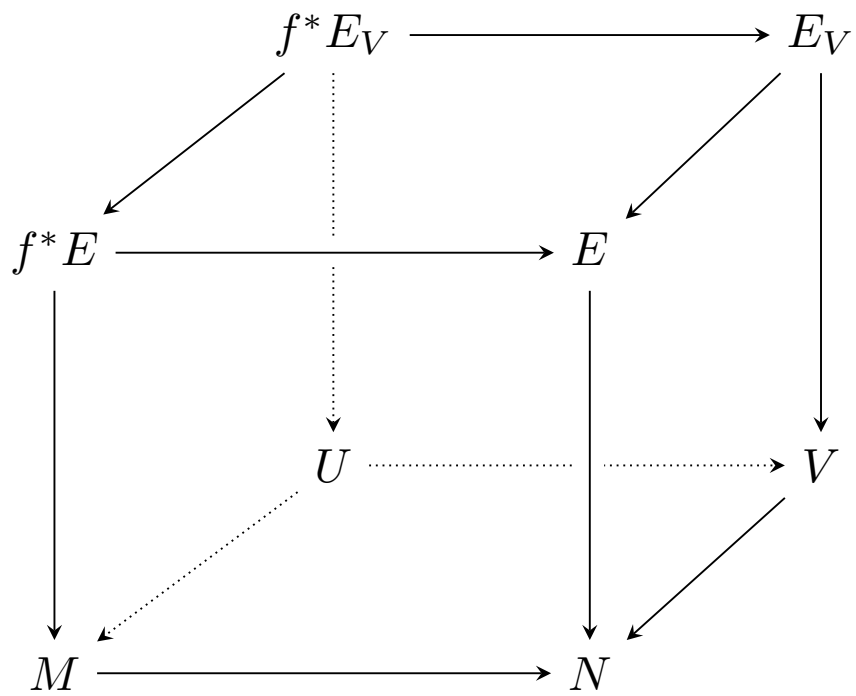
Fermat's Last Theorem states that

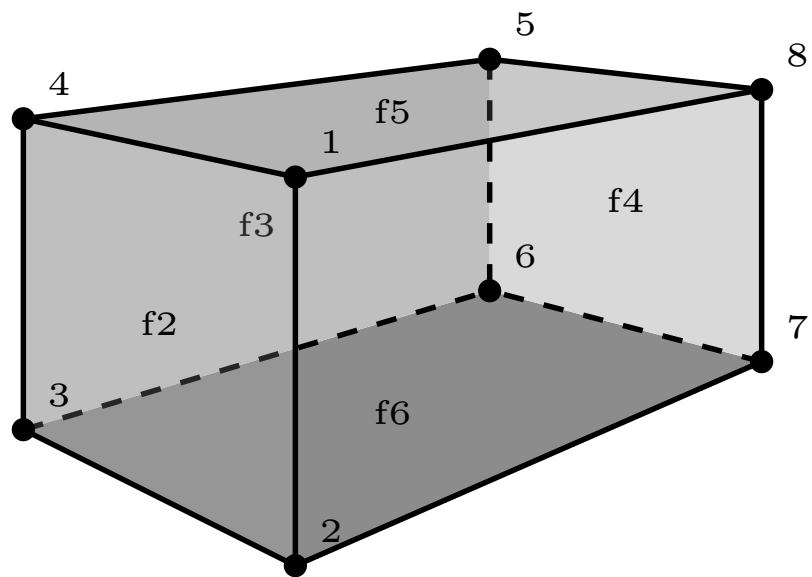
$$x^n + y^n = z^n$$

has no non-zero integer solutions for x , y and z when $n > 2$.

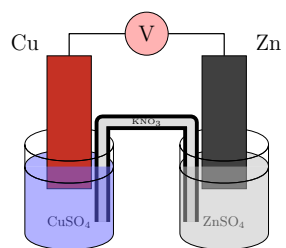


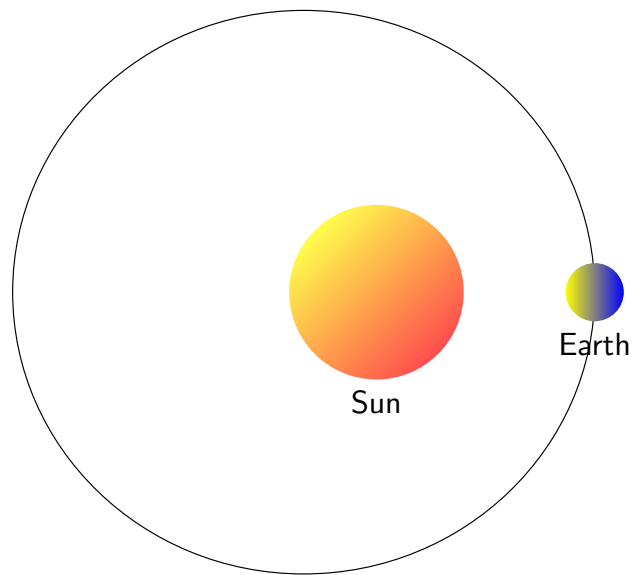






Daniell's Pile





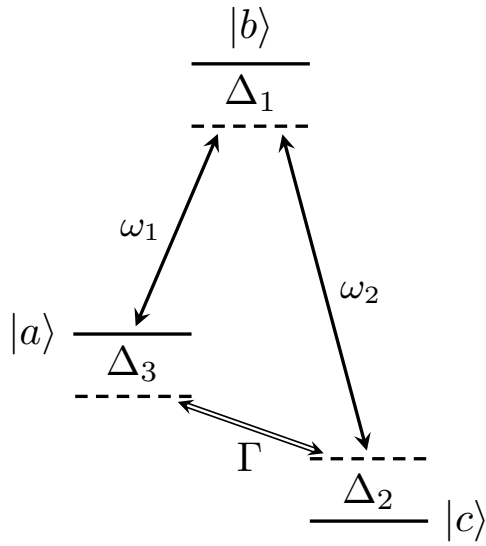
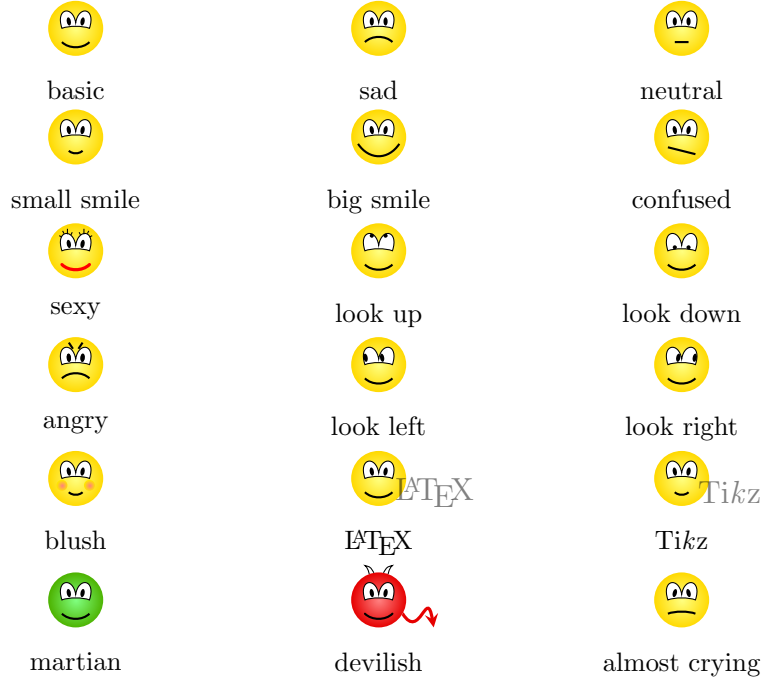
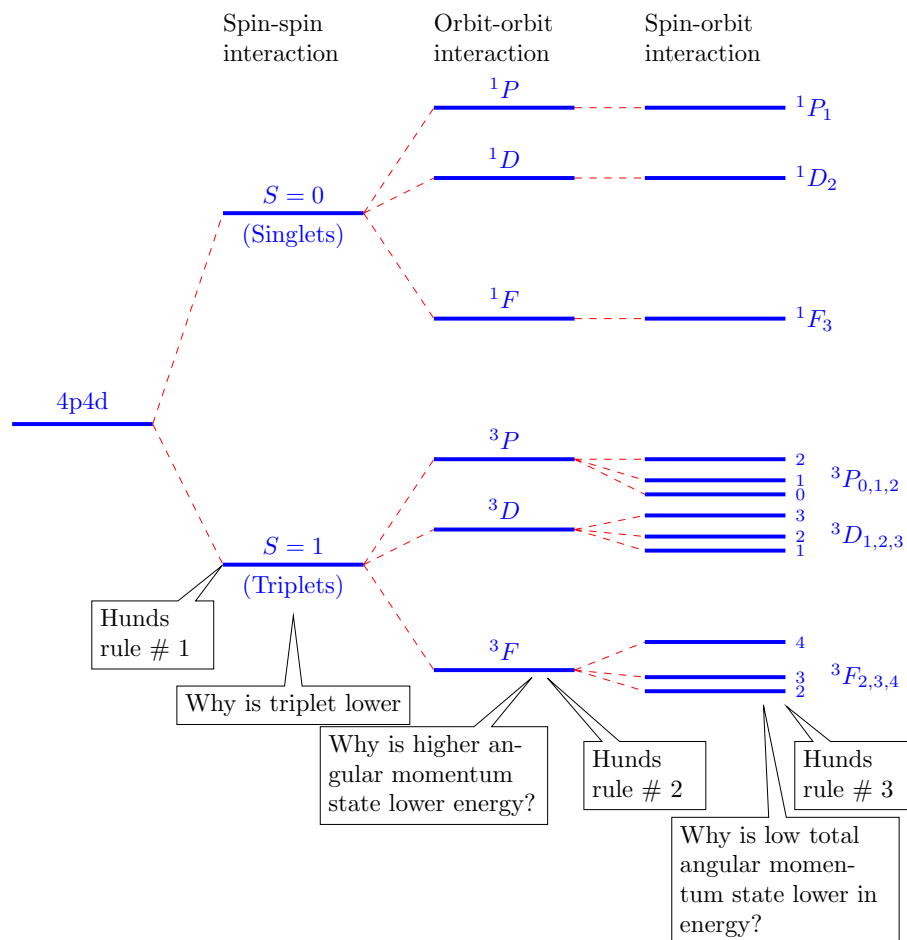
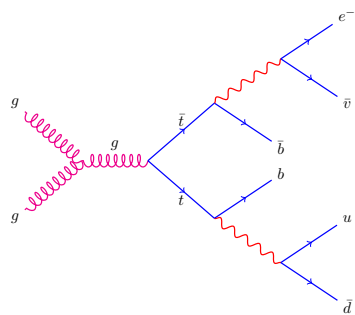


Figure 1: A level diagram with some transitions drawn in TikZ, resized, and placed in a figure environment.





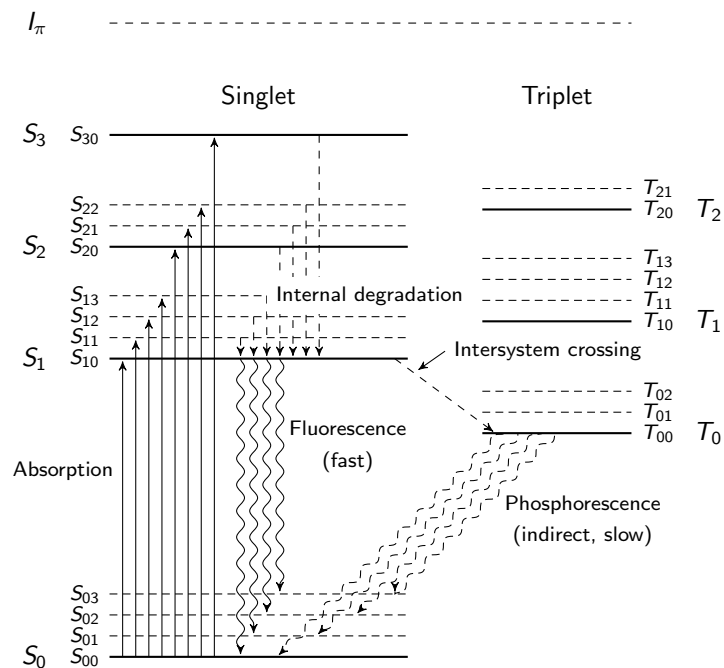
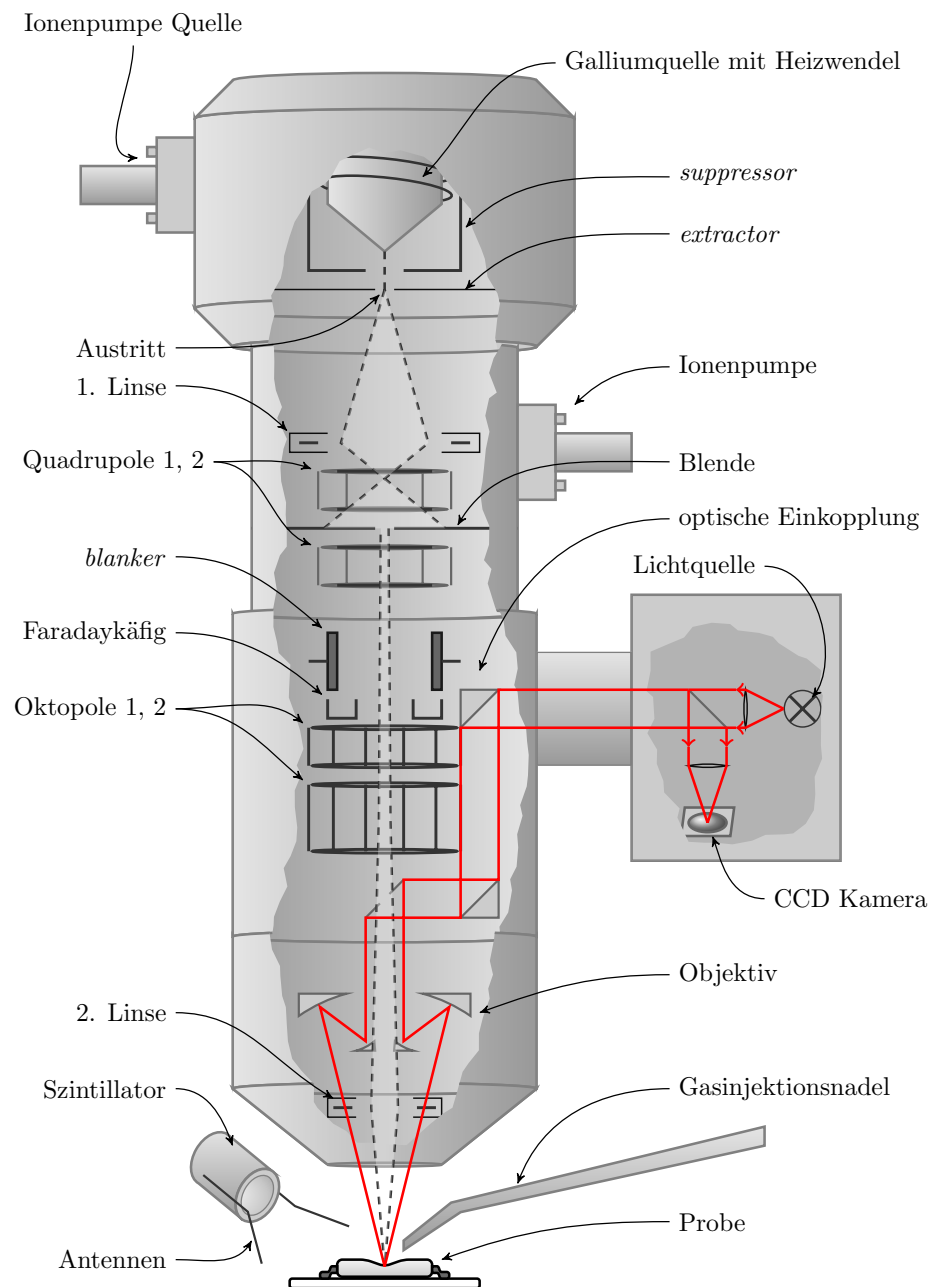
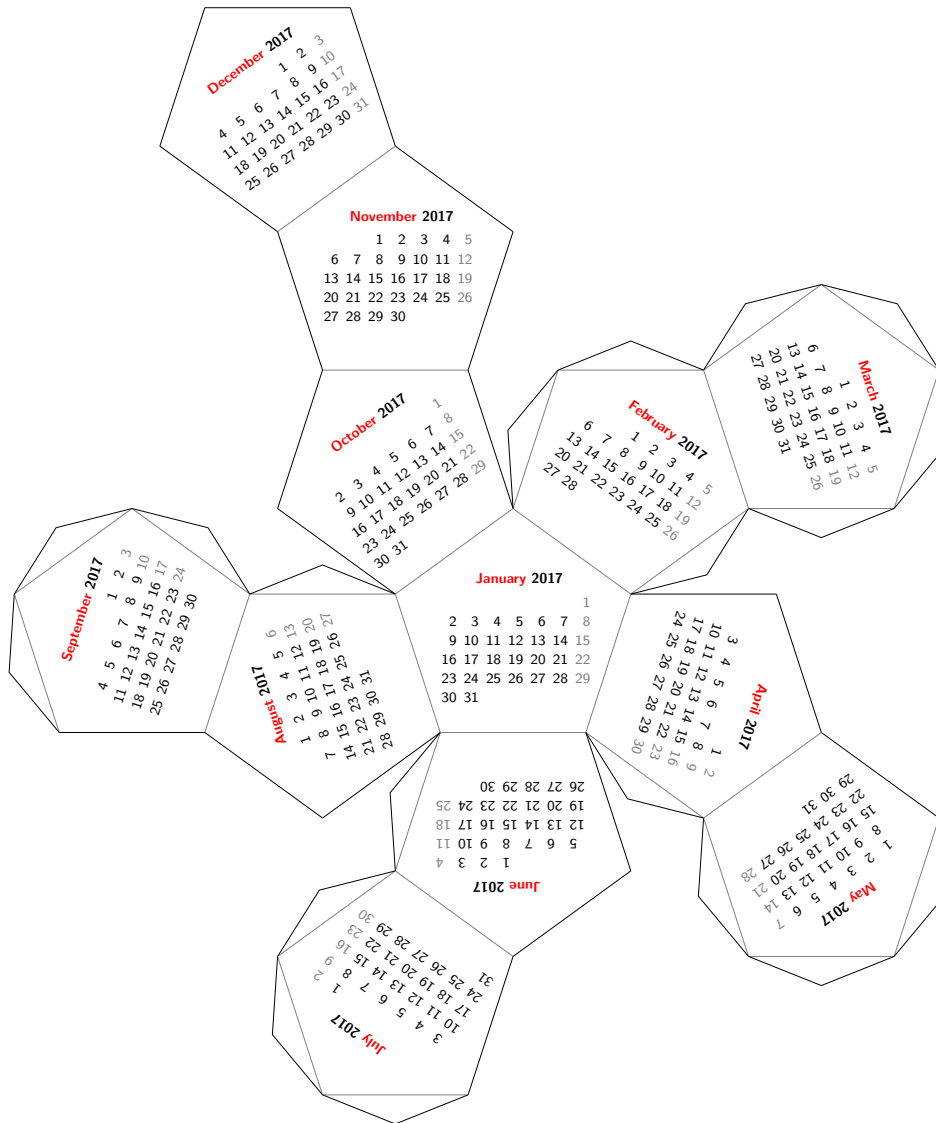
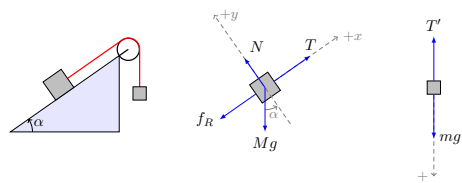


Figure 1 – Typical energy levels for π -orbitals of a fluor molecule. Spin singlet (S) and triplet (T) states are separated for clarity. The ionization level I_π is shown at the top. Excited states as well as vibrational sublevels (dashed horizontal lines) are shown. Internal degradation is a non-radiative process, while fluorescence and phosphorescence are radiative decays. The decay $T_0 \rightarrow S_0$, however, is indirect, by interactions with other molecules.







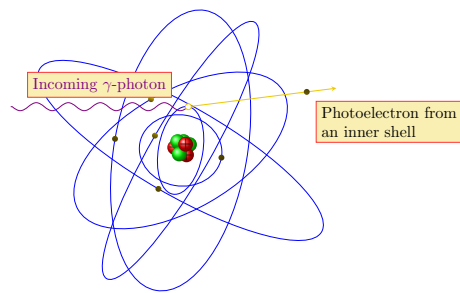


Figure 1: Photoelectric effect

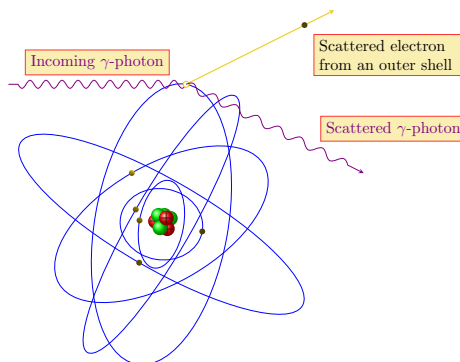





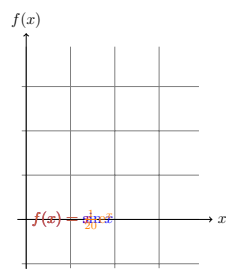
Figure 2: Compton scattering

- Coriolis acceleration 

$$\vec{a}_p = \vec{a}_o + \frac{{}^b d^2}{dt^2} \vec{r} + \underbrace{2\vec{\omega}_{ib} \times \frac{{}^b d}{dt} \vec{r}}_{\text{Coriolis acceleration}} + \underbrace{\vec{\alpha}_{ib} \times \vec{r}}_{\text{Transversal acceleration}} + \underbrace{\vec{\omega}_{ib} \times (\vec{\omega}_{ib} \times \vec{r})}_{\text{Centripetal acceleration}} \quad (1)$$

- Transversal acceleration 
- Centripetal acceleration 

}}\}



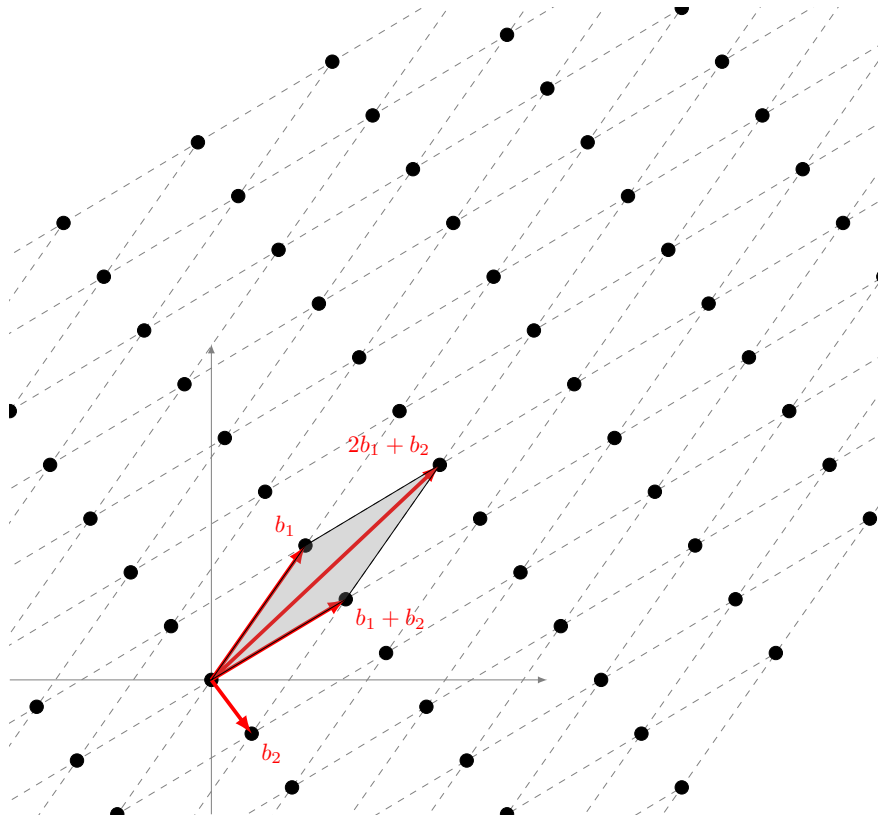
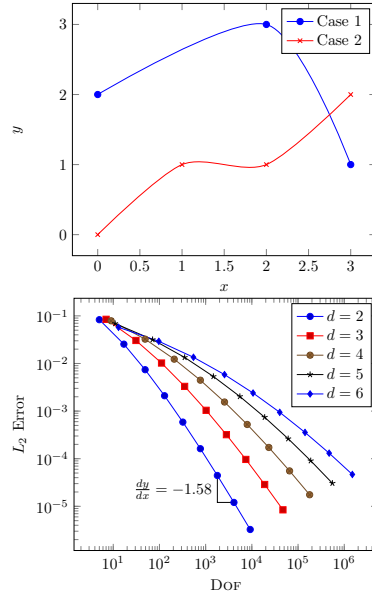
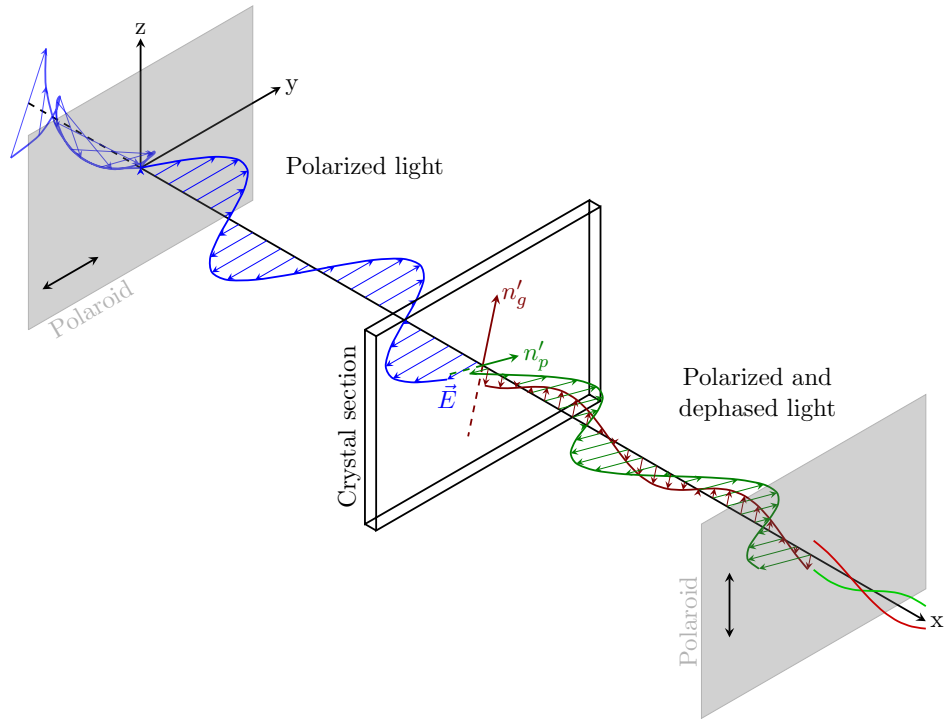


Figure 1: Babai's algorithm works poorly if the basis is "bad".





Light behavior in a petrographic microscope with light polarizing device. Only one incident wavelength is shown (monochromatic light). The magnetic field, perpendicular to the electric one, is not drawn.

