

Projekt 7.15 Skrå kast med skru – analyse af golfslag

Oftentimes it will be relevant to look at a situation with spin on the ball. This gives a force, which acts upwards or downwards on the ball afterwards, depending on whether there is under- or over-spin on the ball. This force is called the Magnus effect. We will first and foremost consider the case, where there is either over- or under-spin and not any spin to the side. It also applies, that the axis of rotation is rotated. Good examples of this could be a golf shot or a goal kick in football. Golfers often do this, for example, so that they give the ball under-spin (bottom spin), so that the ball will fly further, than it otherwise would. Often one will also give the ball under-spin in a goal kick in football for the same reason. An example of a situation, where one will give the ball over-spin, can be a serve in volleyball. Here the over-spin means, that the ball will dip and therefore not go as far, as it would without spin.

The further analysis can be found in chapter 11, interdisciplinary mathematics-physics, section 5.5 s. 36.

You can find the chapter on the book's website, [her](#).