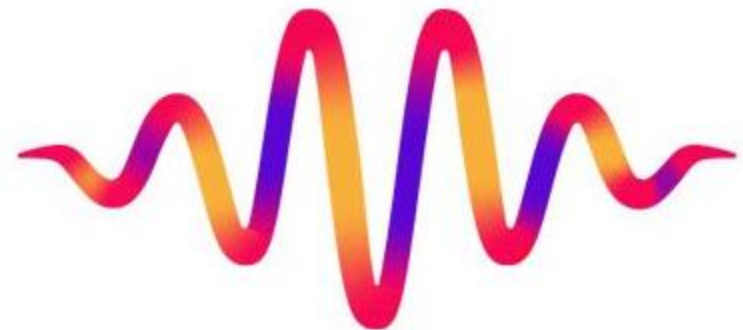
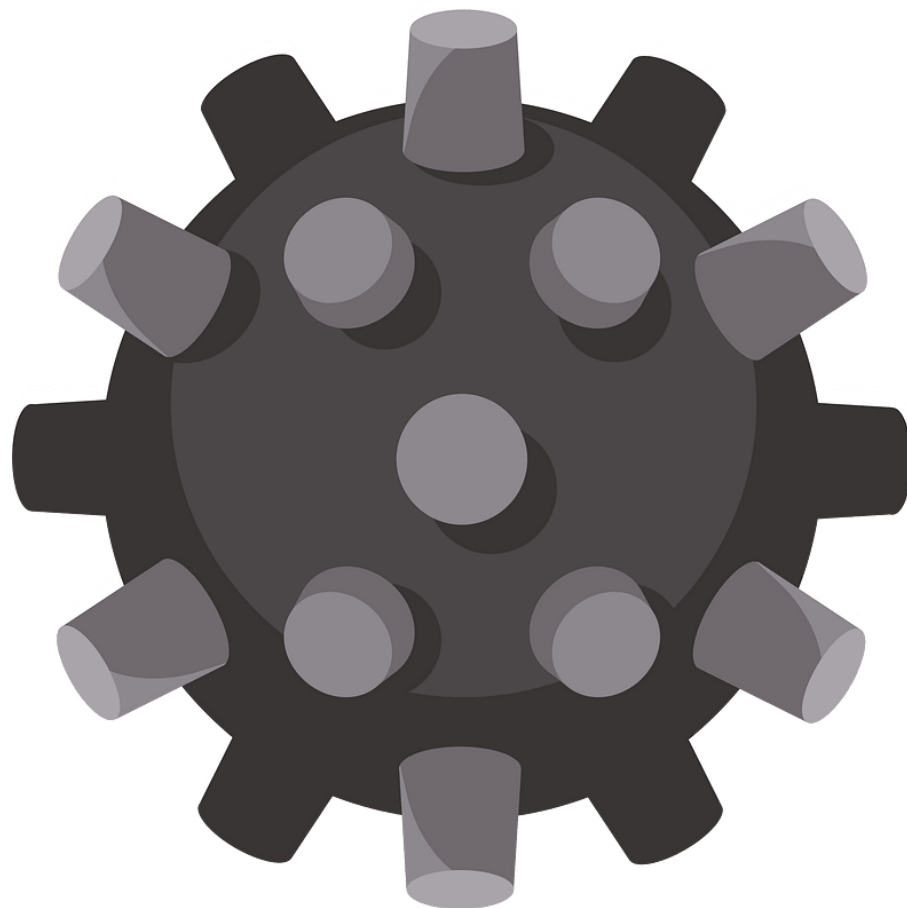


Testování bomby pomocí kvantové mechaniky

F. Švarc, J. Filip, J. Hladíková, J. Olejárová

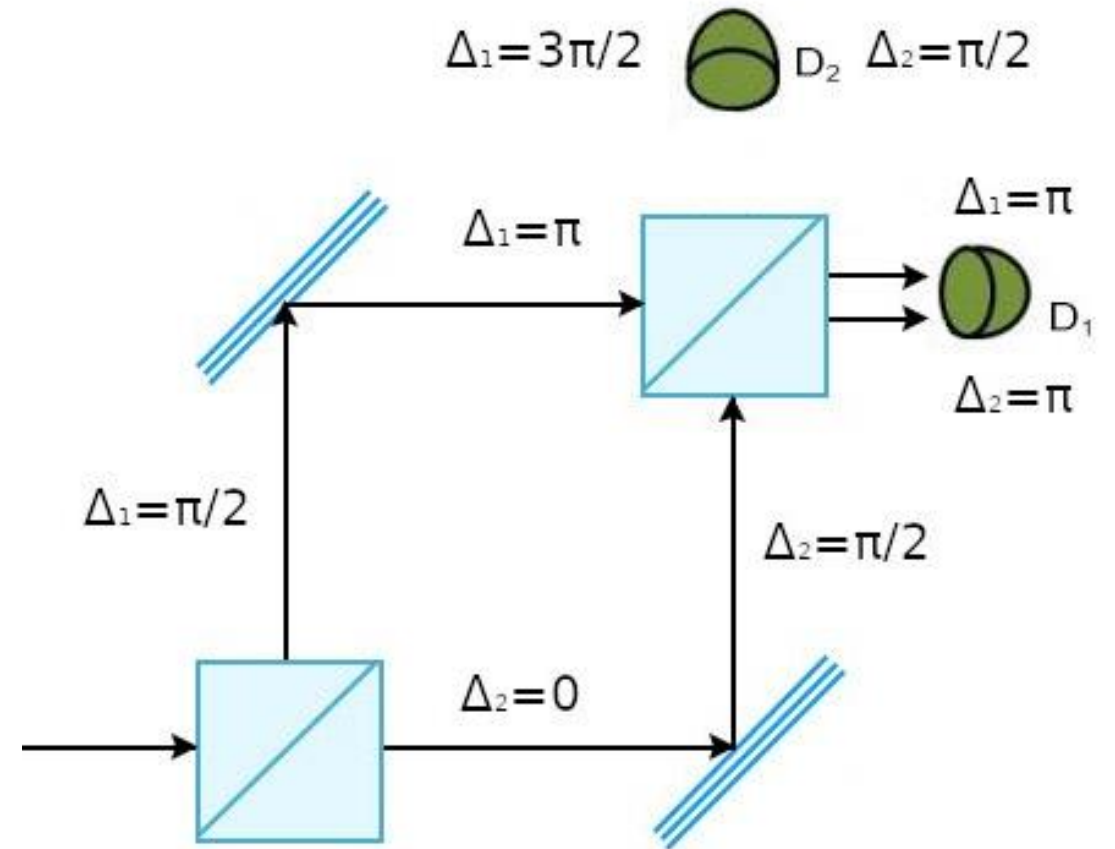
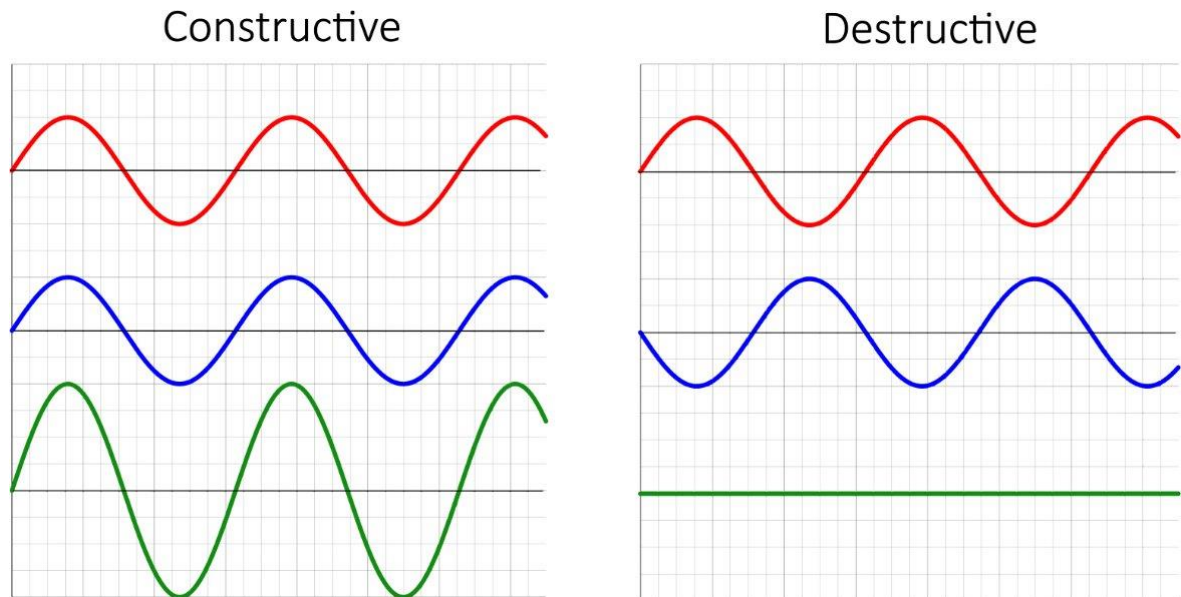


Co to vlastně děláme?



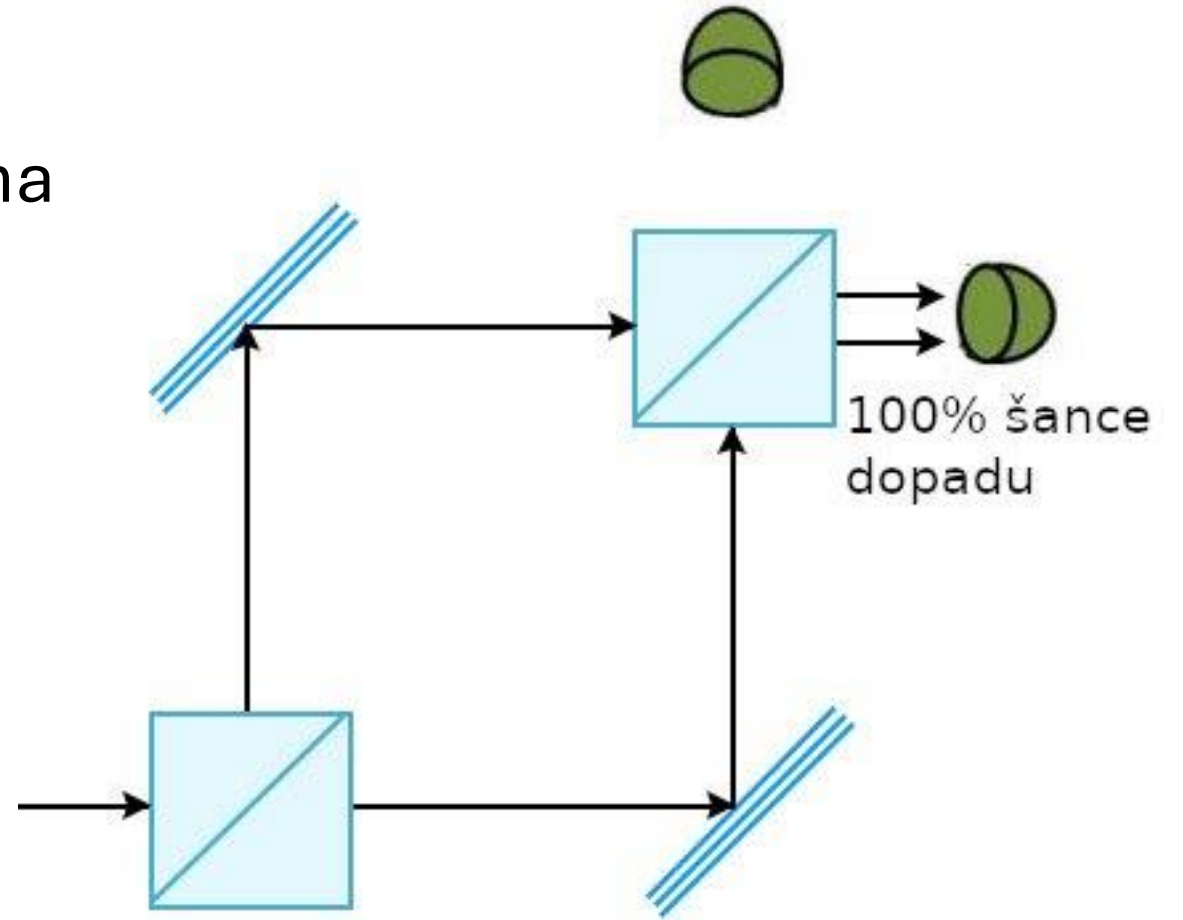
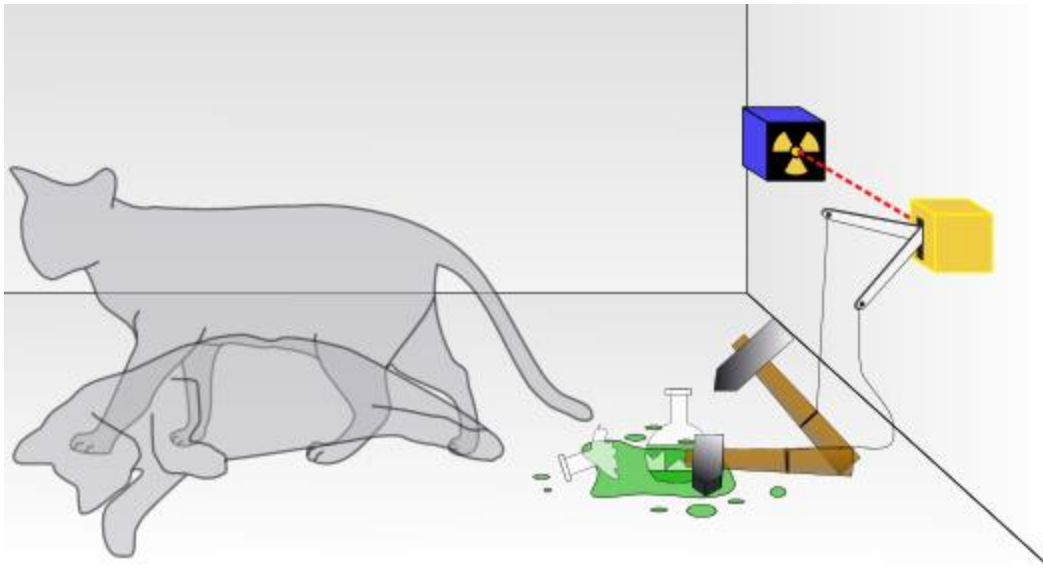
Mach Zehnderův Interferometr

- Interference:
- Interferometr a intenzita

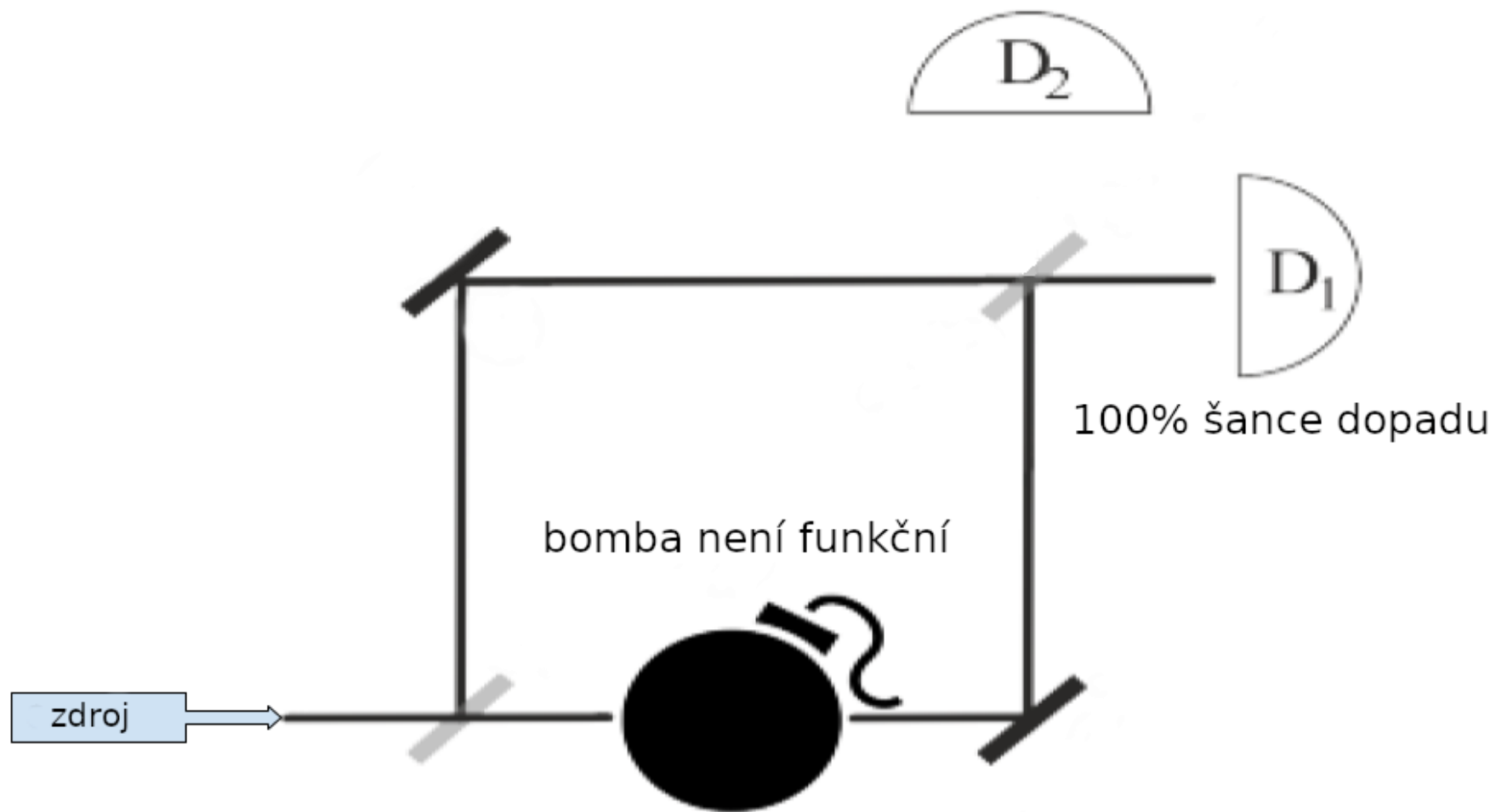


Kvantový popis

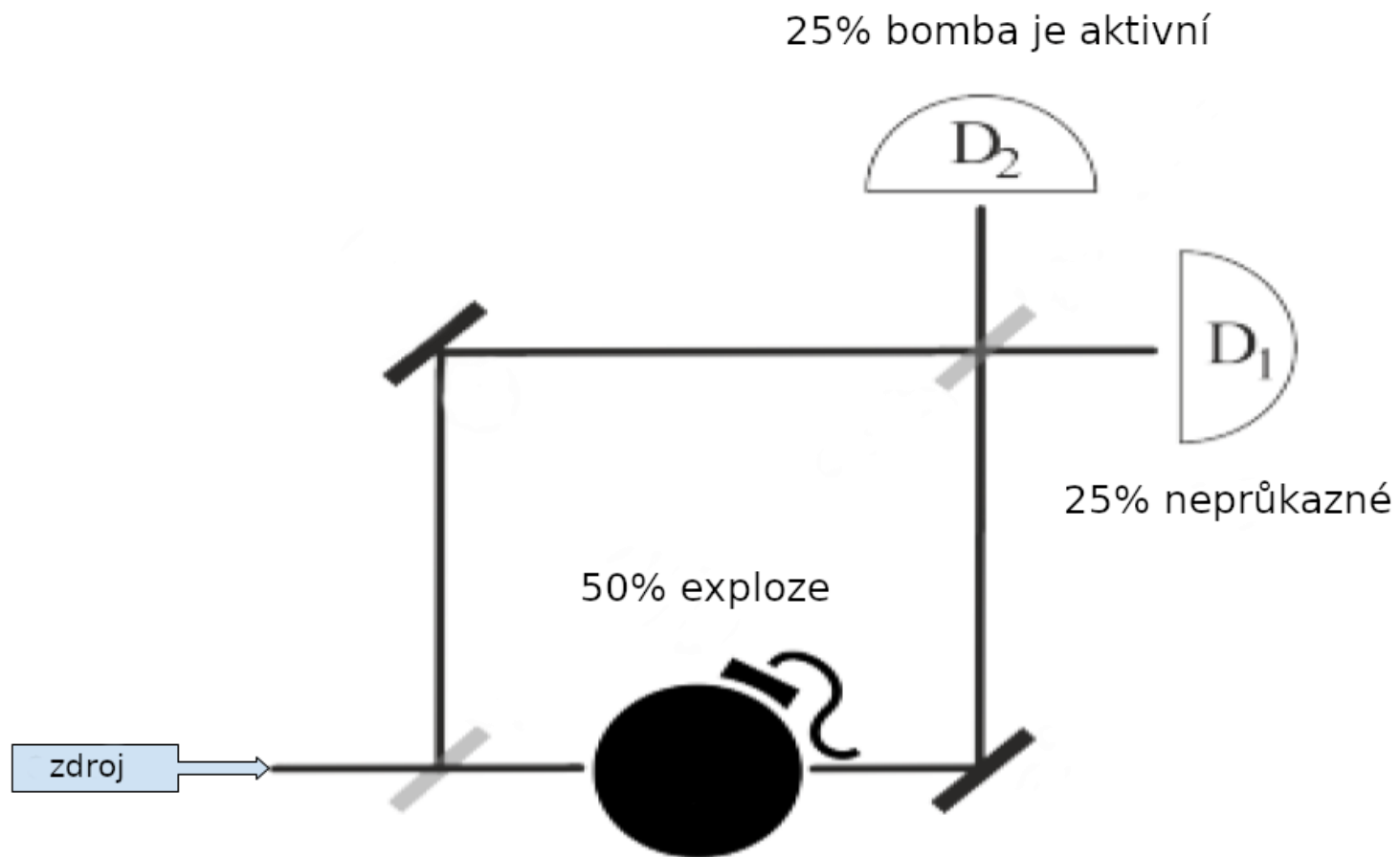
- 1 foton
- Intenzita – pravděpodobnostní vlna
- Superpozice



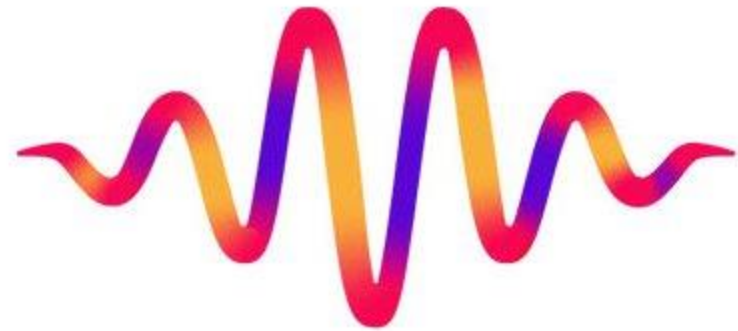
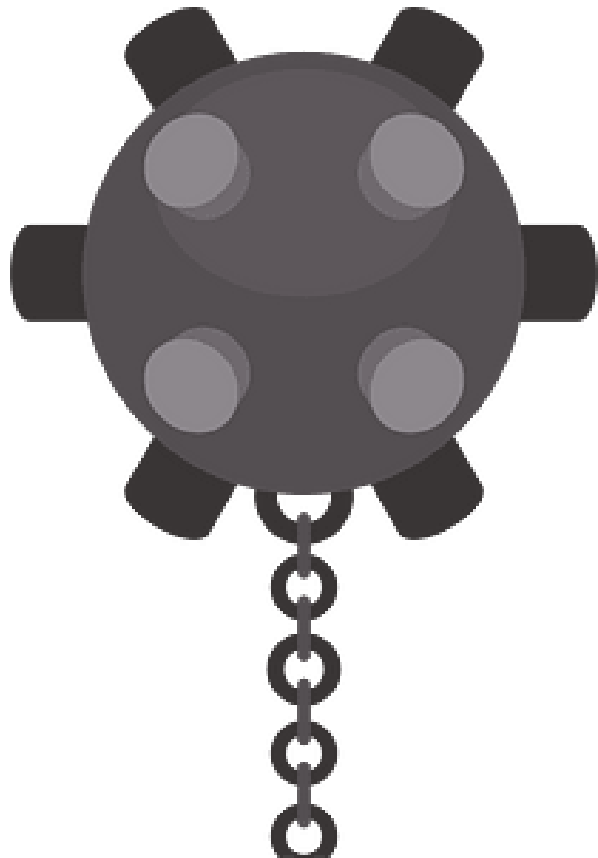
Co když bomba nefunguje?



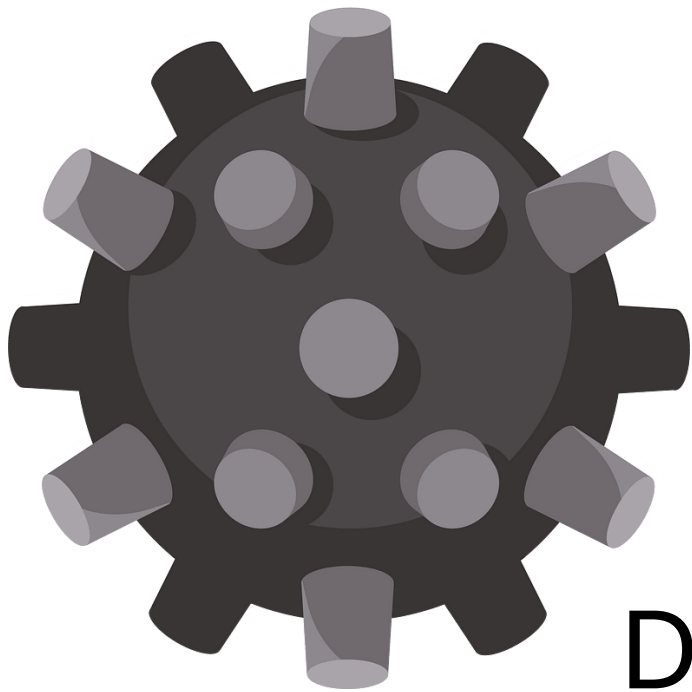
Co když bomba funguje



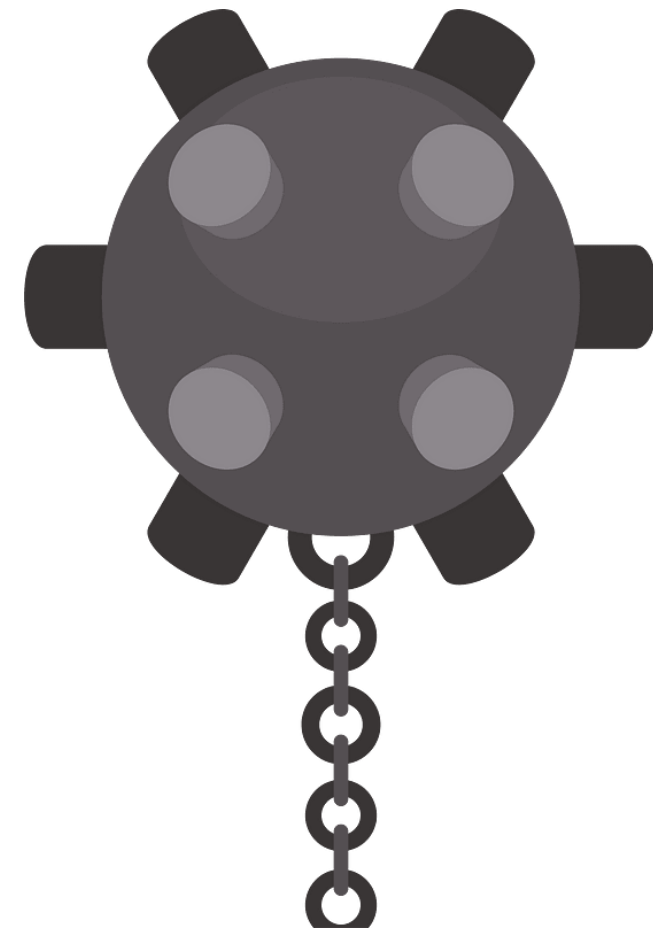
Simulace



**QUANTUM
FLYTRAP**



Děkujeme za pozornost



Zdroje:

- quantumflytrap - oficiální webové stránky, URL: <https://lab.quantumflytrap.com> [cit. 2024-06-18]
- <https://physics.stackexchange.com/questions/770196/elitzur-vaidman-bomb-detector>
- https://en.wikipedia.org/wiki/Schr%C3%B6dinger%27s_cat#/media/File:Schr%C3%B6dingers_cat.svg
- https://phys.libretexts.org/Courses/University_of_California_Davis/UCD%3A_Physics_7C_-_General_Physics/8%3A_Waves/8.5%3A_Superposition_and_Interference
- <https://creazilla.com/media/clipart/7821343/naval-mine>
- <https://creazilla.com/media/clipart/7766195/underwater-mine>
- <https://www.future-of-computing.com/wp-content/uploads/2022/07/Frame-34.jpg>