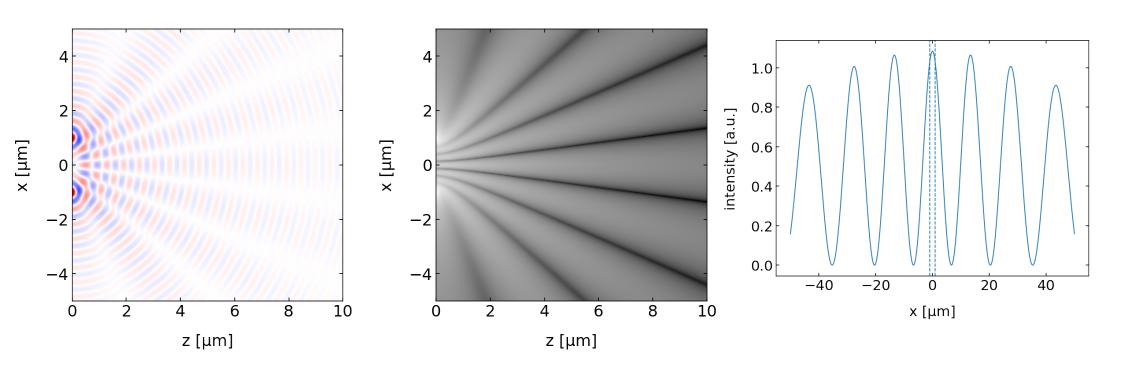
## Experimental Physics 3 - Em-Waves, Optics, Quantum mechanics

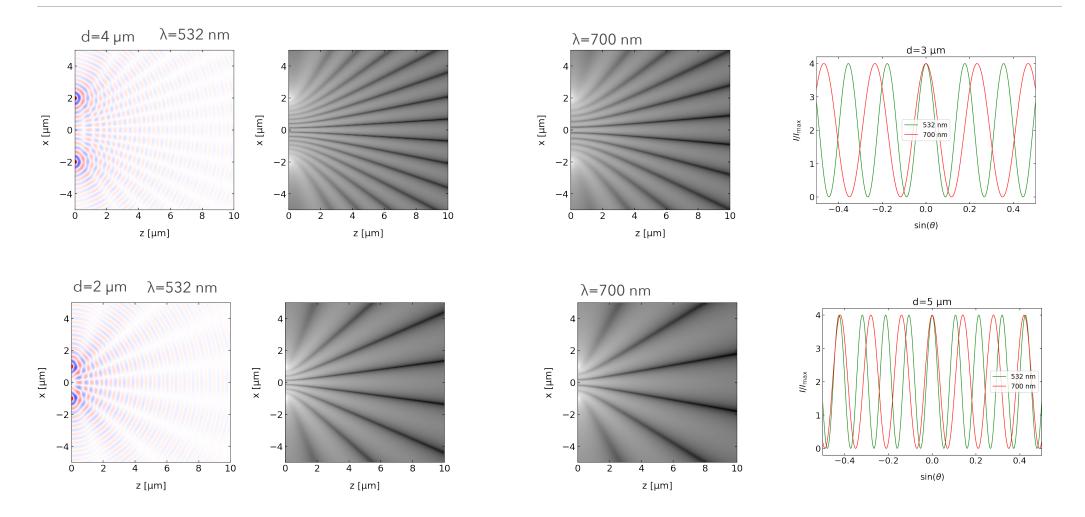
Lecture 9

Prof. Dr. Frank Cichos WS 2022/23

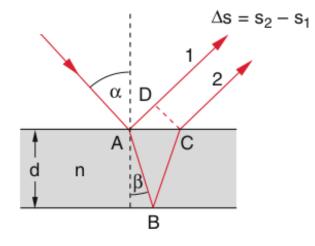
## Double Slit

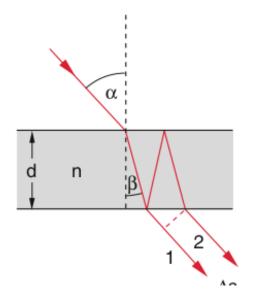


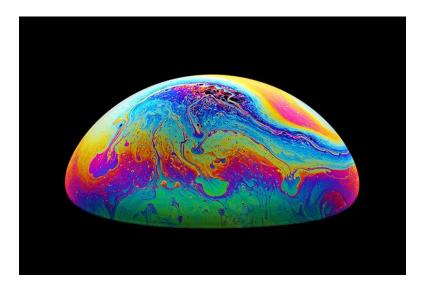
### Double Slit - Distance and Wavelength



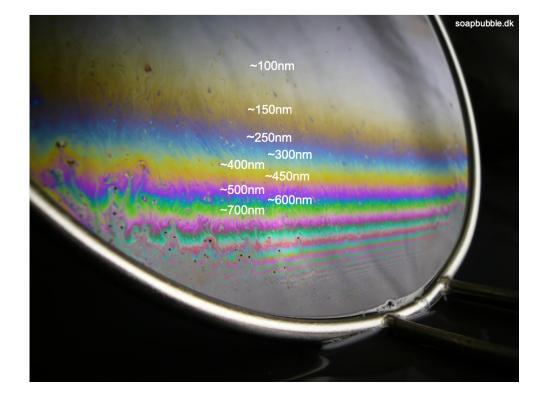
## Thin Film Interference







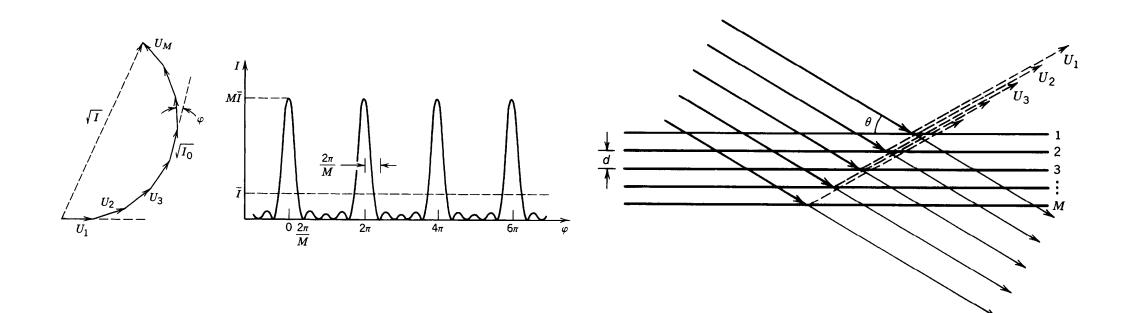
## Newton Black Film - Soap Bubble Challenge





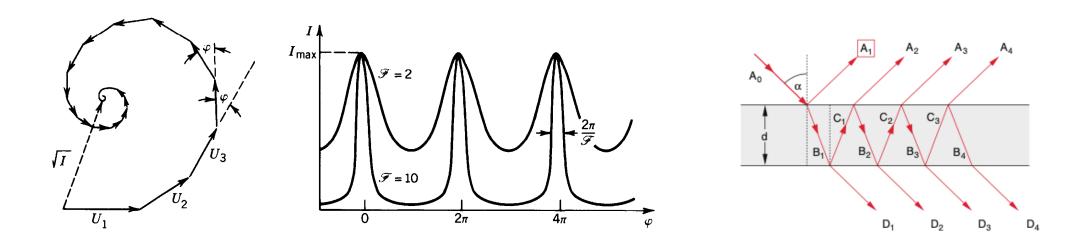
https://www.soapbubble.dk

#### Multiple Wave Interference - Constant Intensity



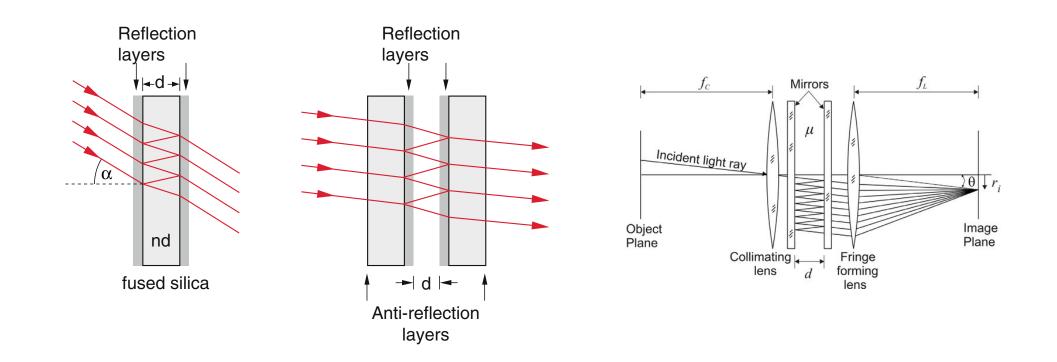
(c) Saleh/Teich: Principles of Photonics

#### Multiple Wave Interference - Decaying Intensity

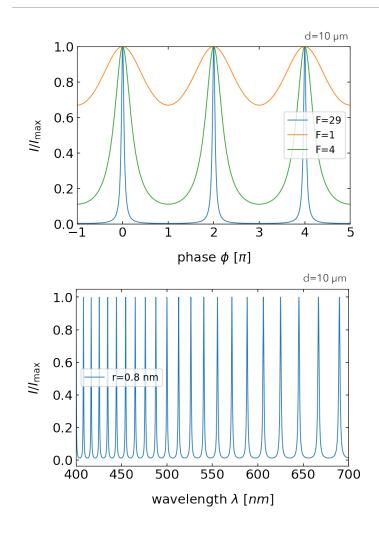


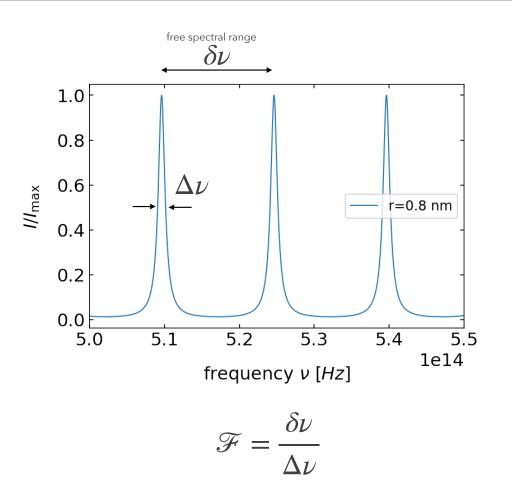
(c) Saleh/Teich: Principles of Photonics

## Fabry Perot Interferometer



#### Fabry Perot Interferometer





## Fabry Perot Interferometer



# Newton Rings

