A black and white portrait of Albert Einstein, showing his characteristic wild hair and mustache. He is looking slightly to the right of the camera with a thoughtful expression. His hands are clasped together in front of him. The lighting is dramatic, highlighting the texture of his skin and the details of his sweater.

Relativitätstheorie

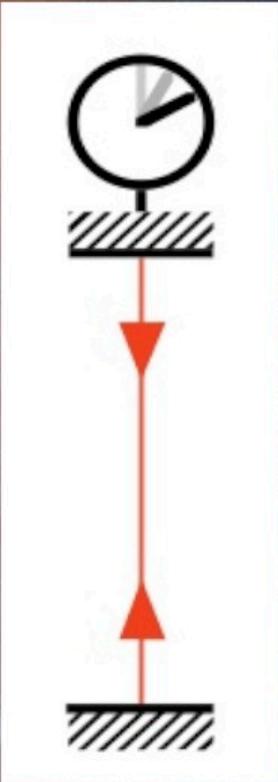
Bernd Erk (@gethash)

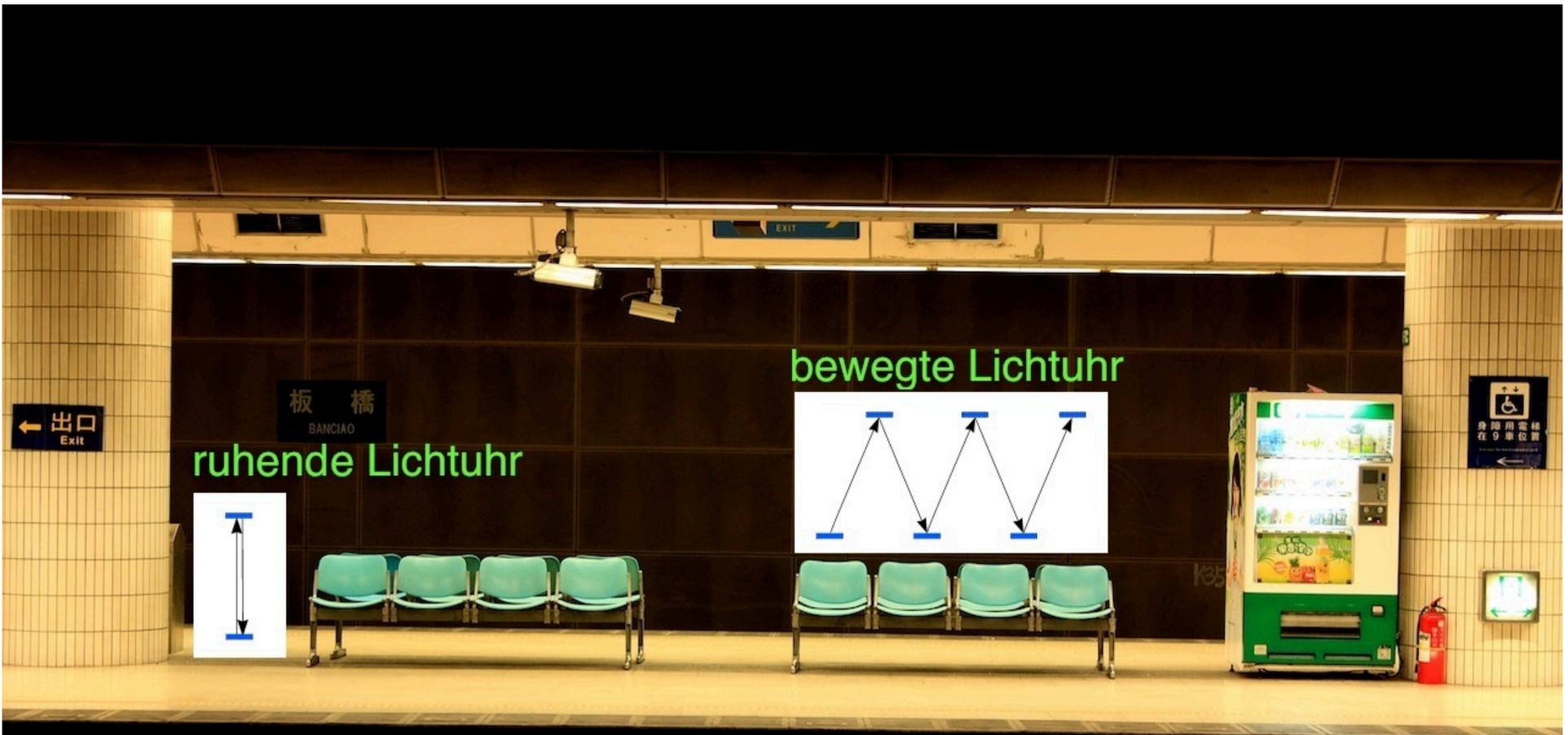




Lichtgeschwindigkeit ist
Konstant bei ca. 300.000
Kilometern pro Sekunde



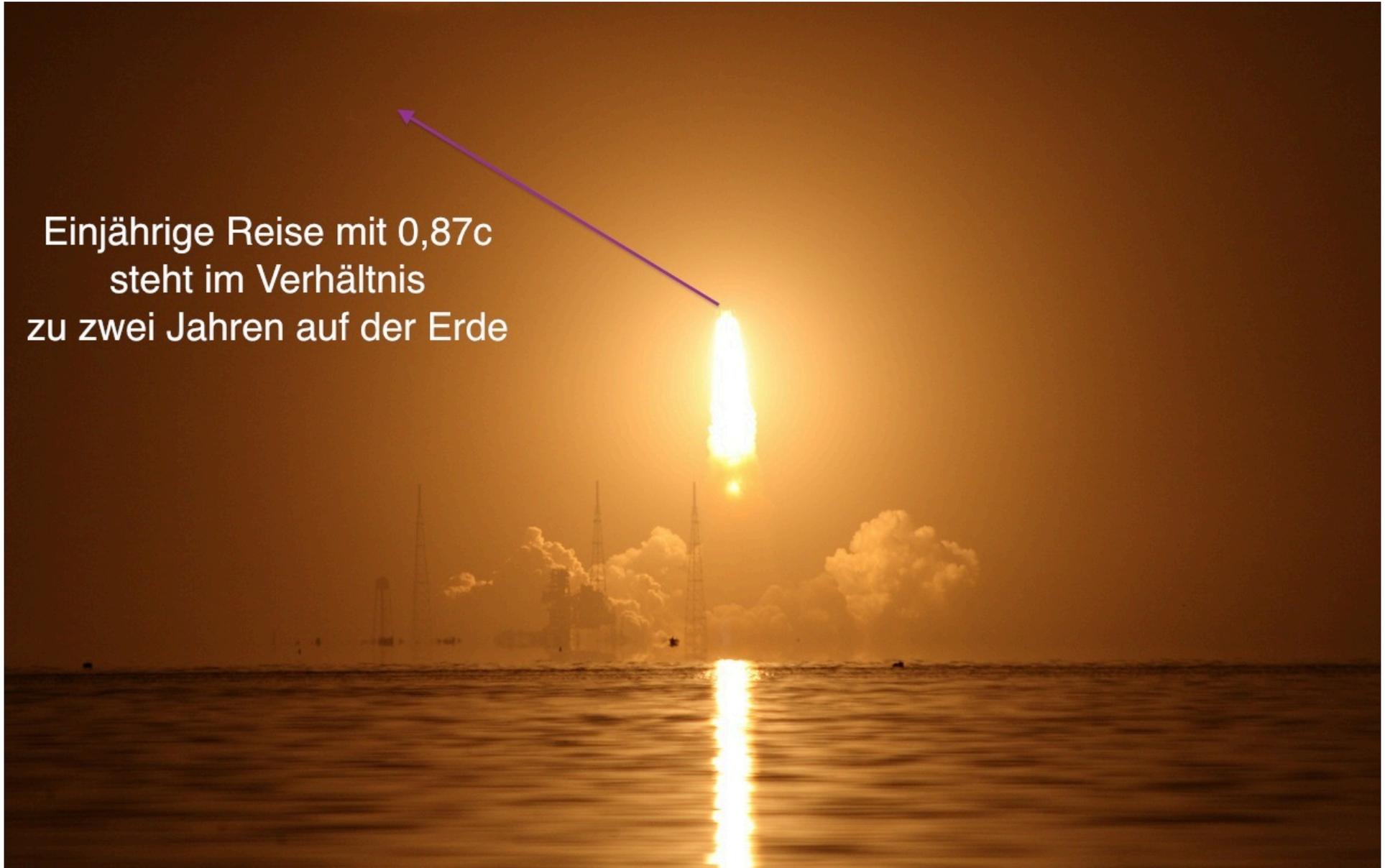




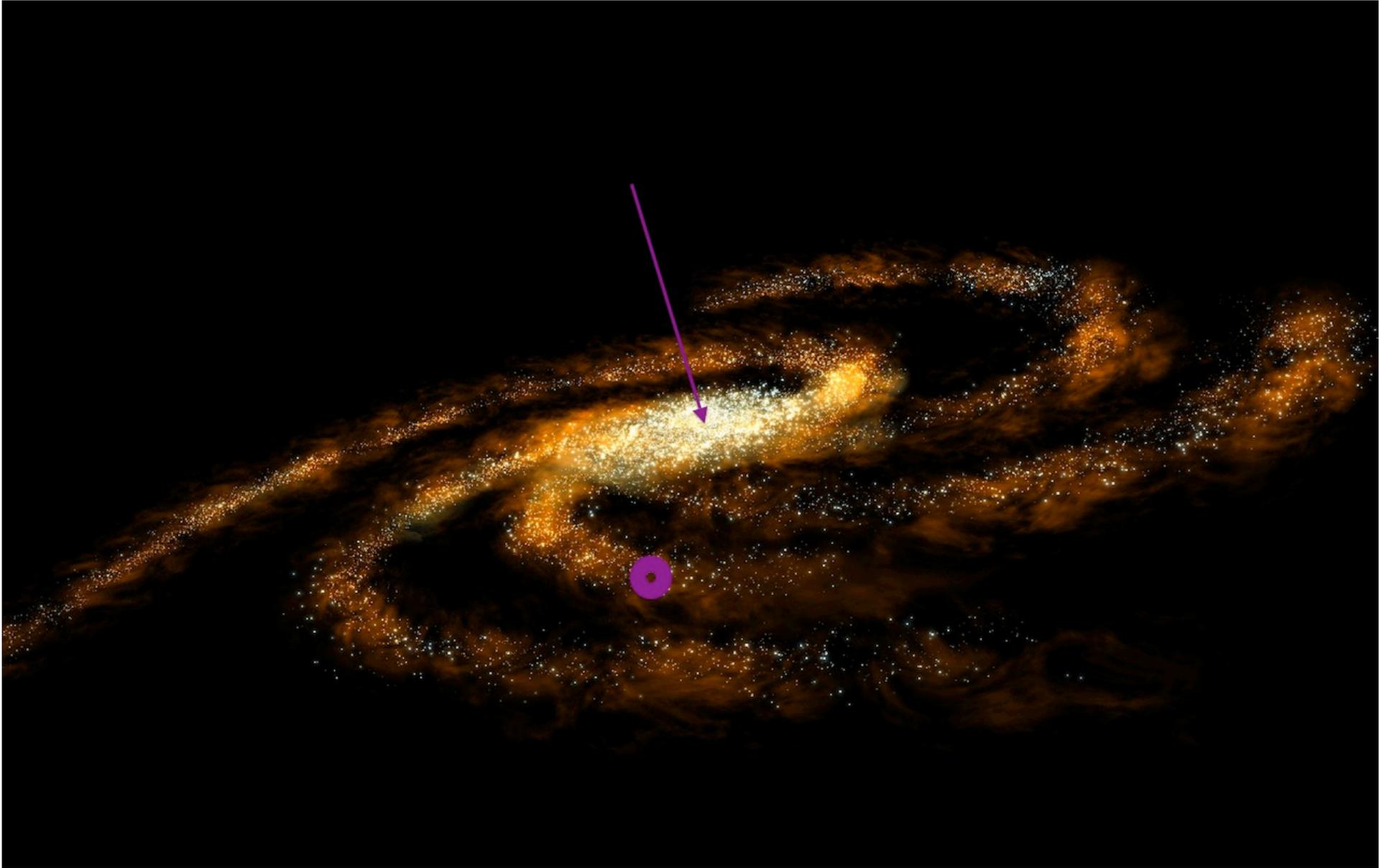
je höher die Geschwindigkeit, desto langsamer vergeht die Zeit



Einjährige Reise mit $0,87c$
steht im Verhältnis
zu zwei Jahren auf der Erde

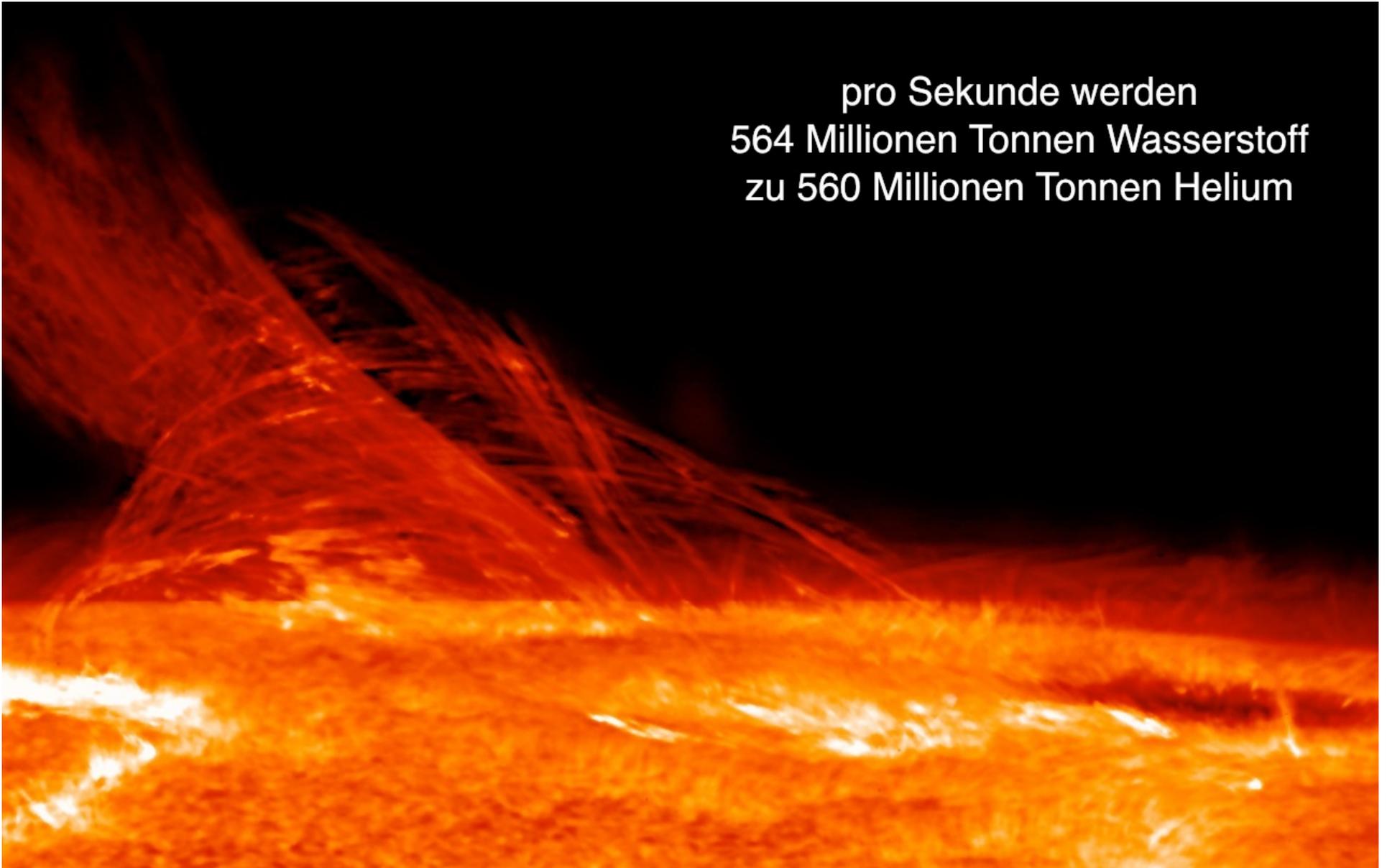






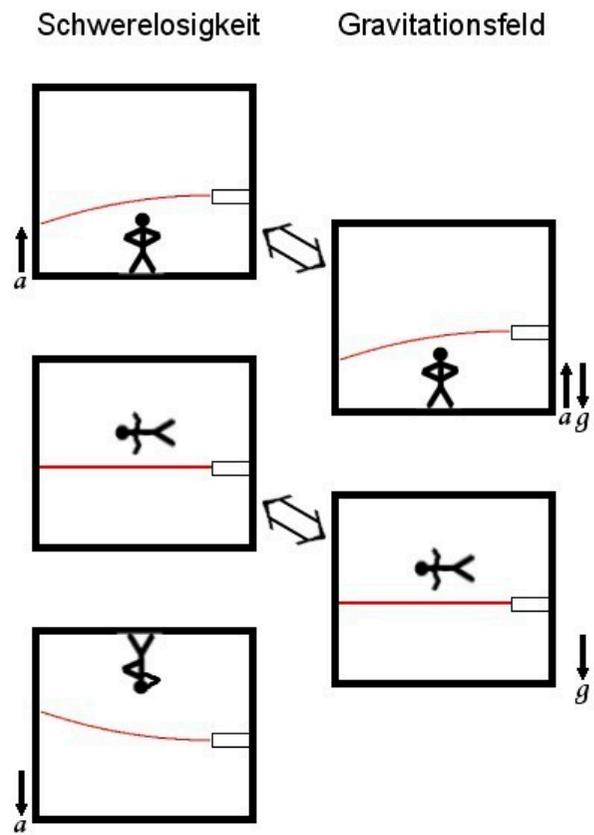


pro Sekunde werden
564 Millionen Tonnen Wasserstoff
zu 560 Millionen Tonnen Helium

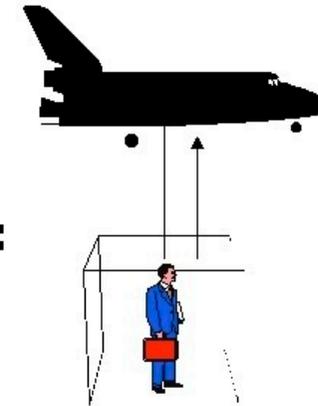




Äquivalenzprinzip



=

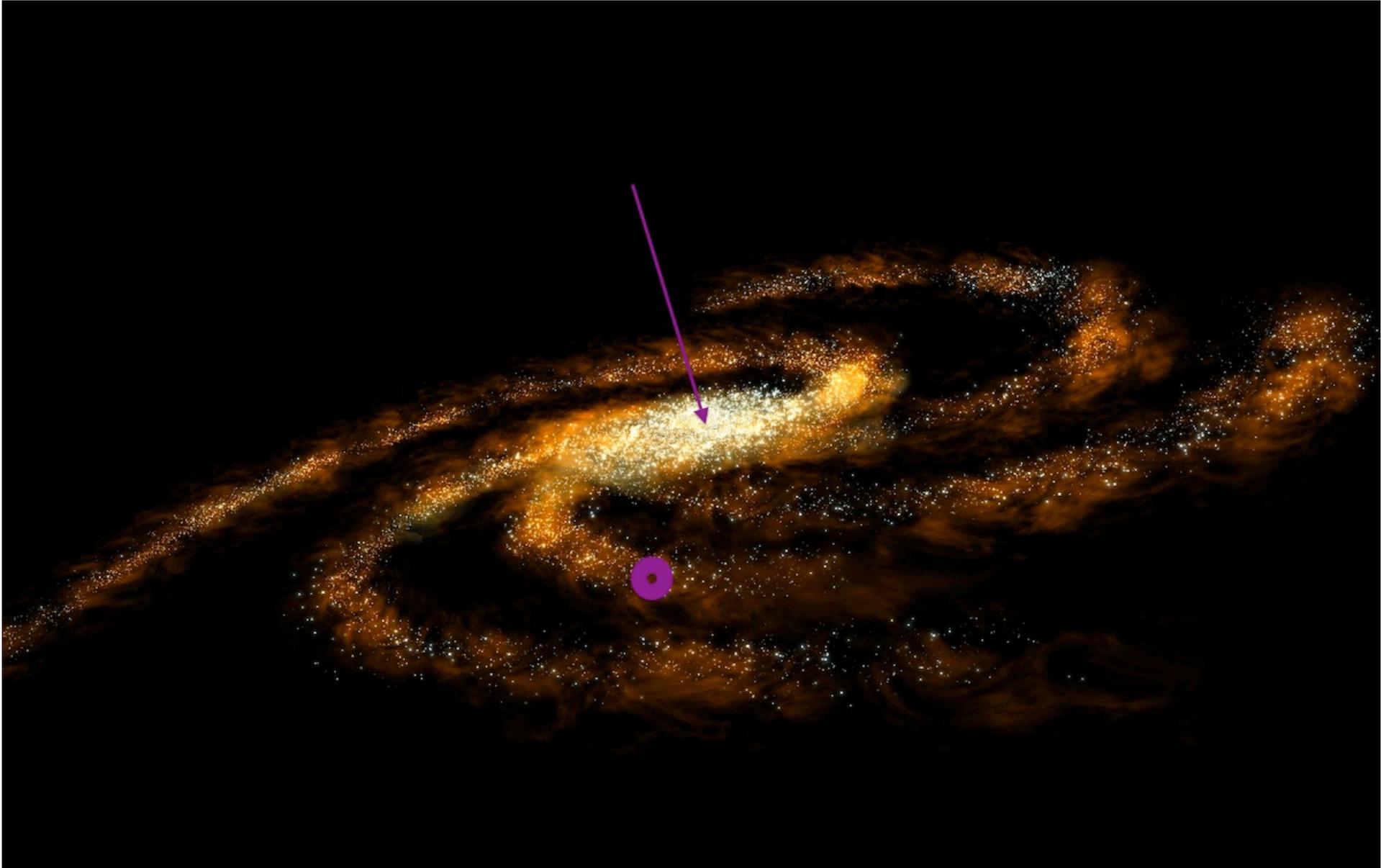


Merke:
Beschleunigung und
Gravitation sind Äquivalent

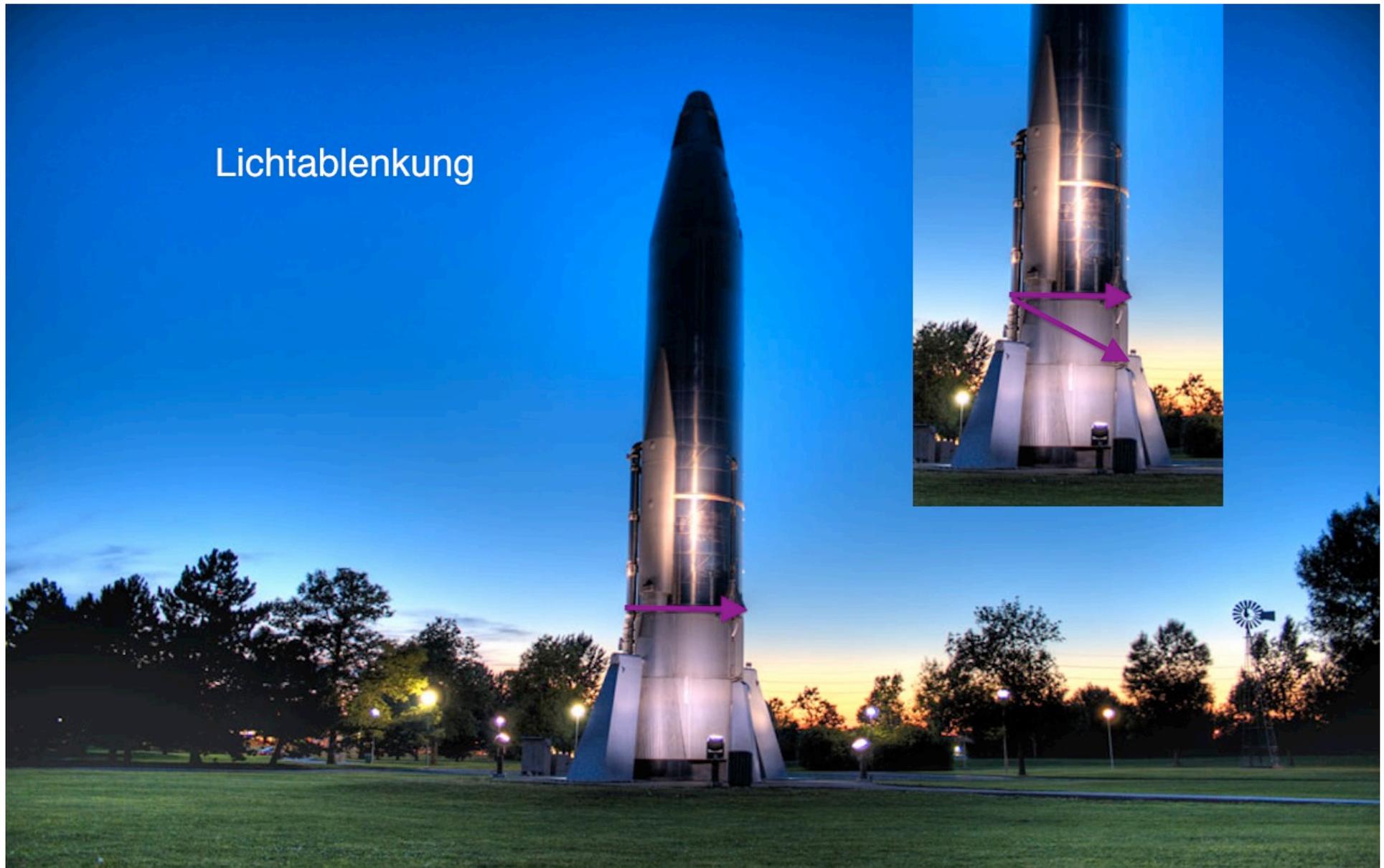


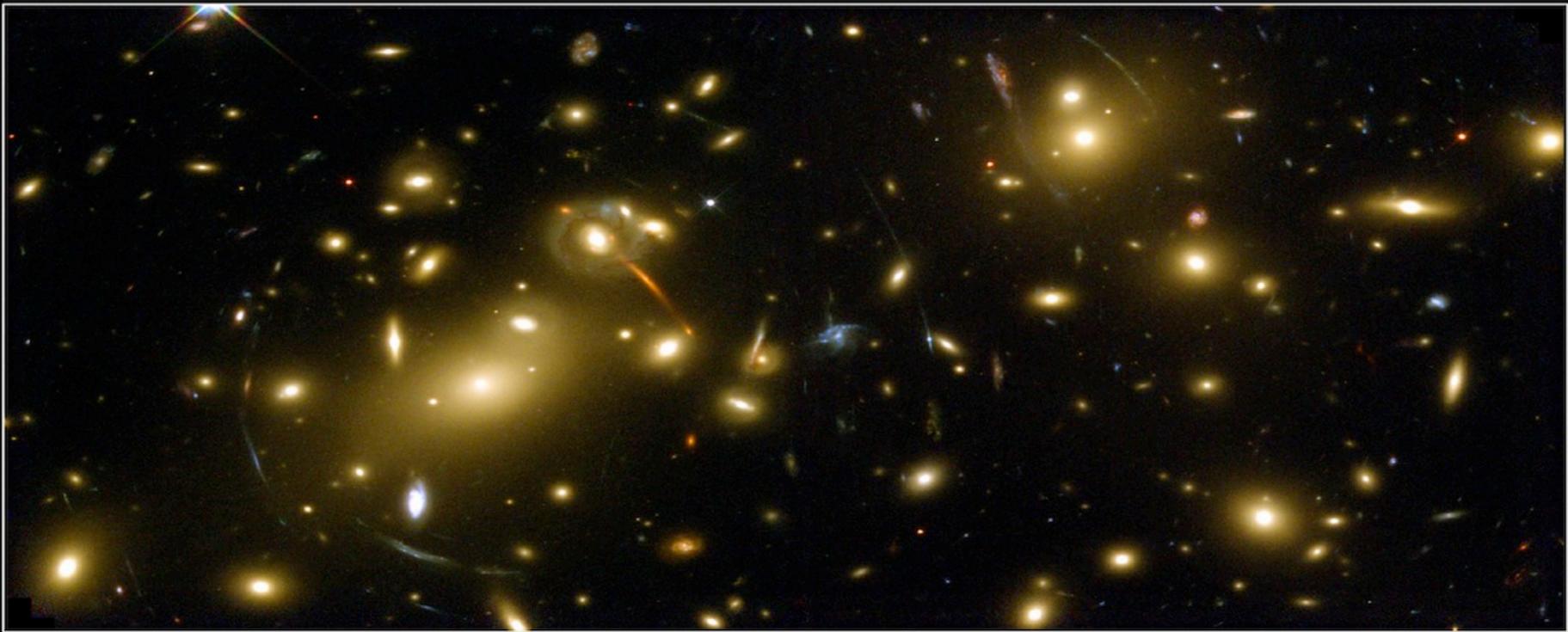
Je stärker die Gravitation, desto langsamer vergeht die Zeit





Lichtablenkung





Galaxy Cluster Abell 2218
Hubble Space Telescope • WFPC2

NASA, A. Fruchter and the ERO Team (STScI, ST-ECF) • STScI-PRC00-08

Einsteindiät

