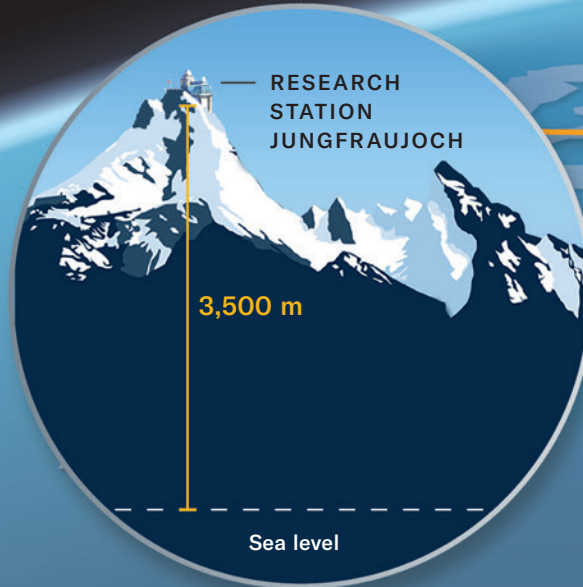
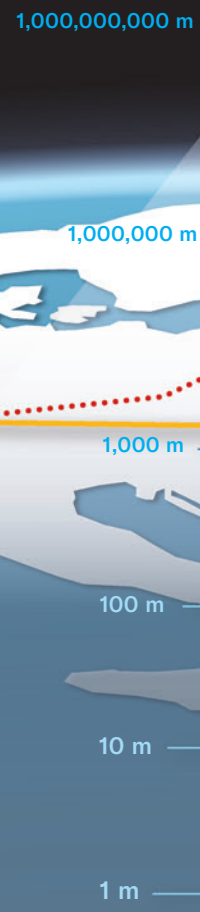
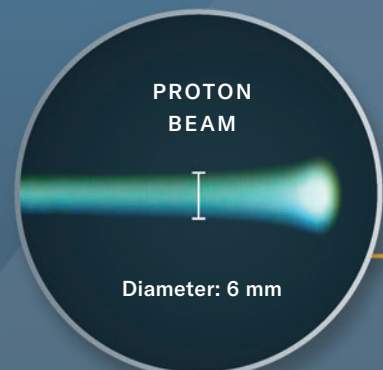


# Dimensions at PSI

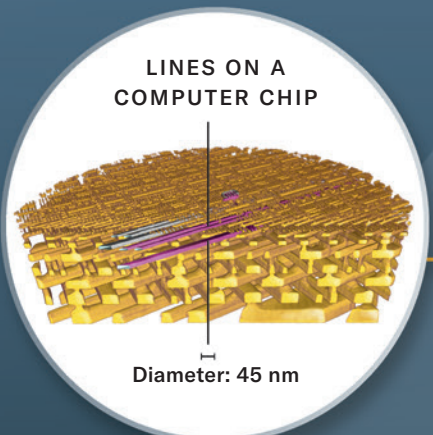


**3,500 m**  
above sea level sits the Research Station Jungfrauoch, where PSI researchers also conduct atmospheric research. One measurement series has been running for 33 years.

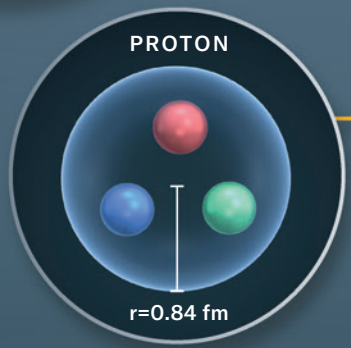
**0.44 m**  
44 cm is the width of this double-page spread.



**0.006 m**  
The diameter of the focused proton beam used to treat tumours point by point in the Centre for Proton Therapy is around 6 mm.



**0.000 000 045 m**  
45 nanometres is the diameter of the electrical lines on a computer chip, which were made visible in a 3D visualisation at SLS.



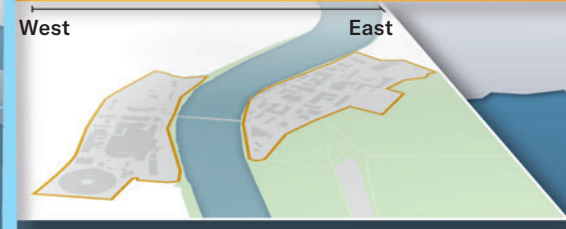
**0.000 000 000 000 000 84184 m**  
0.84184 femtometres is the charge radius – thus half the diameter – of the proton. The most precise measurements to date worldwide, made at PSI, yielded this value.

**105,665,000 m**  
105,665 km is the maximum distance from Earth on the orbit of the space telescope XMM-Newton. It was co-developed by PSI and has been in orbit since 1999.



**2,200 km**  
is the east-west extent of the PSI campus.

**725 m**  
is the east-west extent of the PSI campus.

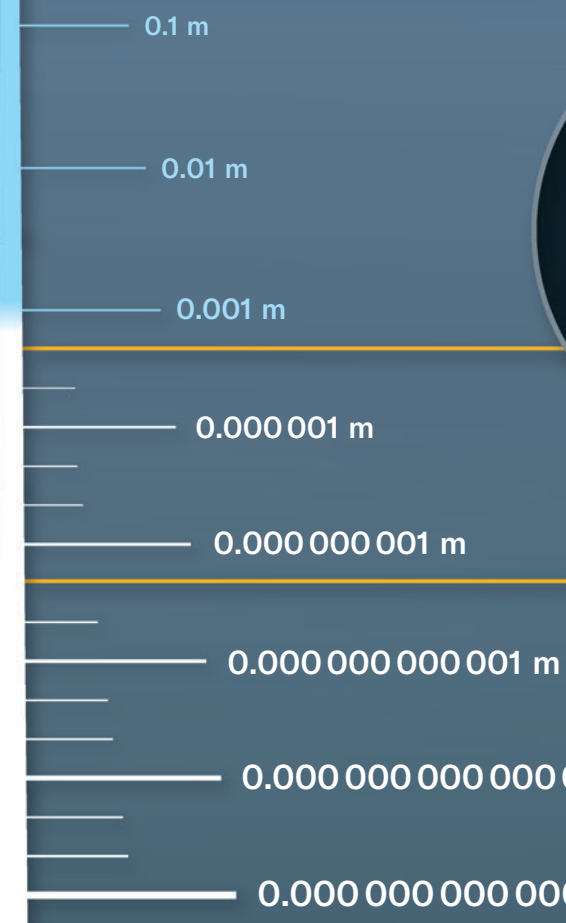


**2,200,000 m**  
2,200 km is the farthest (one-way) that PSI researchers have driven the Smogmobil: In Estonia they used it to study aerosols.

**15 m**  
is the diameter of the HIPA cyclotron in the proton accelerator facility.



**0.0001 m**  
0.1 mm is a typical edge length of the membrane protein crystals whose protein structures are investigated at SLS.



**0.000 000 000 1 m**  
100 picometre is the wavelength of the most energetic X-ray light SwissFEL can deliver for experiments. The shorter the wavelength, the smaller the structures it can reveal.

