# Low Pressures

Pressure/mbar

$10^{4}$

**2300 mbar**
**Average pressure in a car tyre**

Credit: Petr Kratochvil. www.publicdomainpictures.net

**1000 mbar**
**Atmospheric pressure**

$10^{2}$

**800 mbar**
**Pressure in a vacuum cleaner**

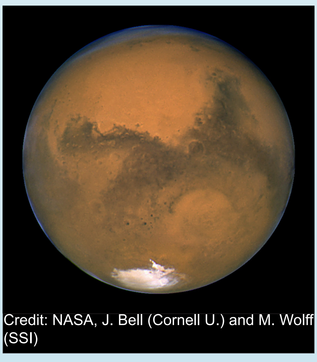
Credit: Petr Kratochvil. www.publicdomainpictures.net

**300 mbar**
**Pressure at the top of Everest**

1

$10^{-2}$

**7 mbar**
**The average pressure on the surface of Mars**



Credit: NASA, J. Bell (Cornell U.) and M. Wolff (SSI)

**0.0001 mbar**
**Pressure in an incandescent light bulb**

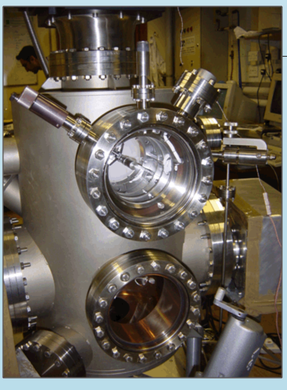
$10^{-4}$

$10^{-6}$

$10^{-8}$

**$10^{-6}$ mbar**
**Pressure in an old fashioned TV tube**

**$9 \times 10^{-11}$ mbar**
**Ultra-high vacuum**



$10^{-10}$

$10^{-12}$

**$10^{-15}$ mbar**
**Pressure in interstellar space**

Credit: NASA, ESA, N. Smith (UC Berkeley) and the Hubble Heritage Team STScI/AURA)

$10^{-14}$

$10^{-16}$

*Note that the pressure scale shown here is not linear. It is logarithmic (it goes up in multiples of 10). If this pressure scale were drawn linearly, at a scale of 1 cm to $10^{-16}$ mbar, it would stretch from here to deep space!*

STARS R US!