

# Attenuation at low energies

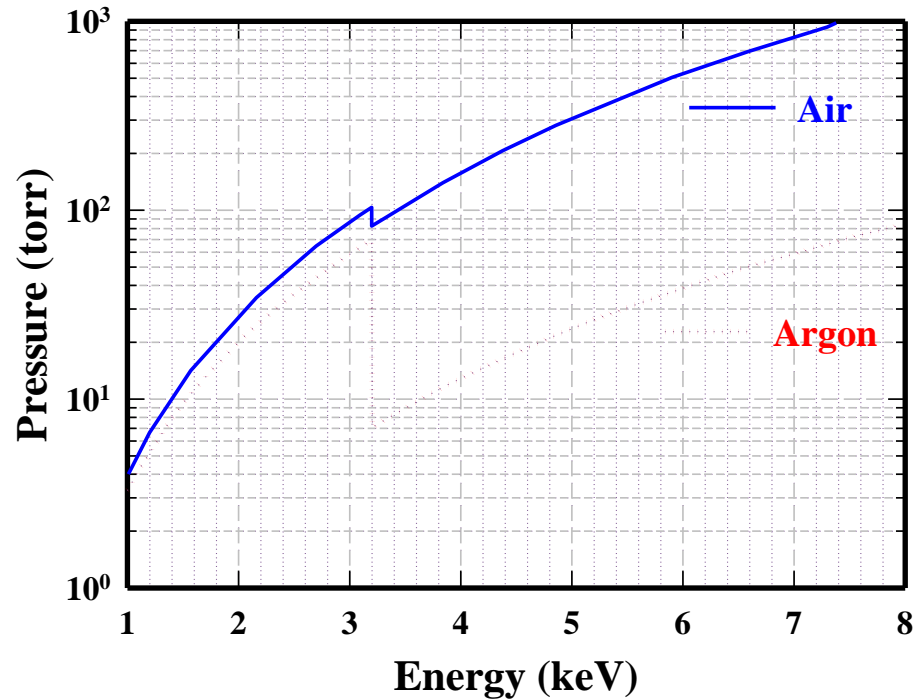


Figure: Energy vs. best pressure in the XAS experimental setup for low energy measurements

| Medium   | $l_{\text{abs}}$ [cm]<br>[at 760<br>Torr] | $l_{\text{abs}}$ [cm]<br>[at 44<br>Torr] |
|----------|---|--|
| Air      | 2.76                                      | 49.94                                    |
| Helium   | 3219.2                                    | 58251                                    |
| Nitrogen | 3.21                                      | 58.08                                    |

Table: Absorption lengths for several gaseous media at 2.5 keV (S K-edge)