FY8201 / TFY8   Nanoparticle and polymer physics I
EXERCISE 5

An infinite long tube is filled with a polymer solution. Through a dimensional and rescaling analysis deduce how the pressure in the tube depends on the size of the polymers.

Compare this 2-dimensional result with the result in Ch. 4.4.2 in the lecture notes (AM24feb05), where a polymer is confined to a 3-dimensional rectangular box.