3. Cross-field diffusion – Consider a fictitious magnetic confinement device with  $n_i = 10^{20} \,\mathrm{m}^{-3}$ ,  $T_e = 10 \,\mathrm{keV}$ ,  $B = 1 \,\mathrm{T}$ ,  $\ln \Lambda = 15$ , and radius = 1 m. Calculate the classical energy confinement time for both ions and electrons. Assume deuterium.

#### ANSWER:

The classical diffusion coefficient is set by a step length of a Larmor radius in a collision time and is  $D=(\frac{1}{2})\Delta x^2/\Delta t=(\frac{1}{2})r_L^2/\overline{\tau}_e$ . The rms distance diffused is  $x_{rms}=\sqrt{2Dt}$  hence the classical energy confinement time (the time to diffuse across the radius a) is  $t=a^2/2D=\tau_E$ .

Use the expression for  $\overline{\tau}_e$  given in the answer to Q1 to get  $\overline{\tau}_e$  for the electrons. Hence for the conditions given and using Z=1 for deuterium, we find  $\overline{\tau}_e=0.391$  milli-sec . Using the expression for particle Larmor radius, given in the answer to PS1, Q4 (note it should have been  $(T/eV)^{1/2}$ ; the square-root was missing)

$$r_L = \frac{v_\perp}{|\Omega|} = \frac{v_T}{|\Omega|} = 3.37 \times 10^{-6} Z^{-1} \left(\frac{T}{{\rm eV}}\right)^{1/2} \left(\frac{B}{{
m T}}\right)^{-1} \left(\frac{m}{m_e}\right)^{1/2} {
m m}$$

(where  $v_T = \sqrt{2k_BT/m}$ ) the electron Larmor radius is  $r_{Le} = 0.337 \, mm$ . Hence  $D_e = 1.45 \times 10^{-4} \, m^2/s$  and  $\sigma_E = 3440 \, s$  for electrons.

The ion collision time is longer than the electron collision time and is given by

$$\tau_i = \tau_e \; \frac{1}{Z^2} \left( \frac{m_i}{m_e} \right)^{1/2}$$

assuming  $T_i = T_e$  [see Section 4.2 of the lectures]. Hence for deuterium with A = 3, Z = 1

2

Plasma Physics

Problem Sheet 4 – Answers

 $\overline{\tau}_i = 29.0 \text{ milli-sec}$ . The Larmor radius is  $\tau_{Li} = 25.0 \text{ mm}$ . Hence  $D_i = 1.08 \times 10^{-2} \text{ m}^2/\text{s}$ and  $\overline{\tau}_E = 46.3 \text{ s}$  for deuterons . We see that ion diffusion is faster by a factor of  $\sqrt{m_i/m_e}$ .

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