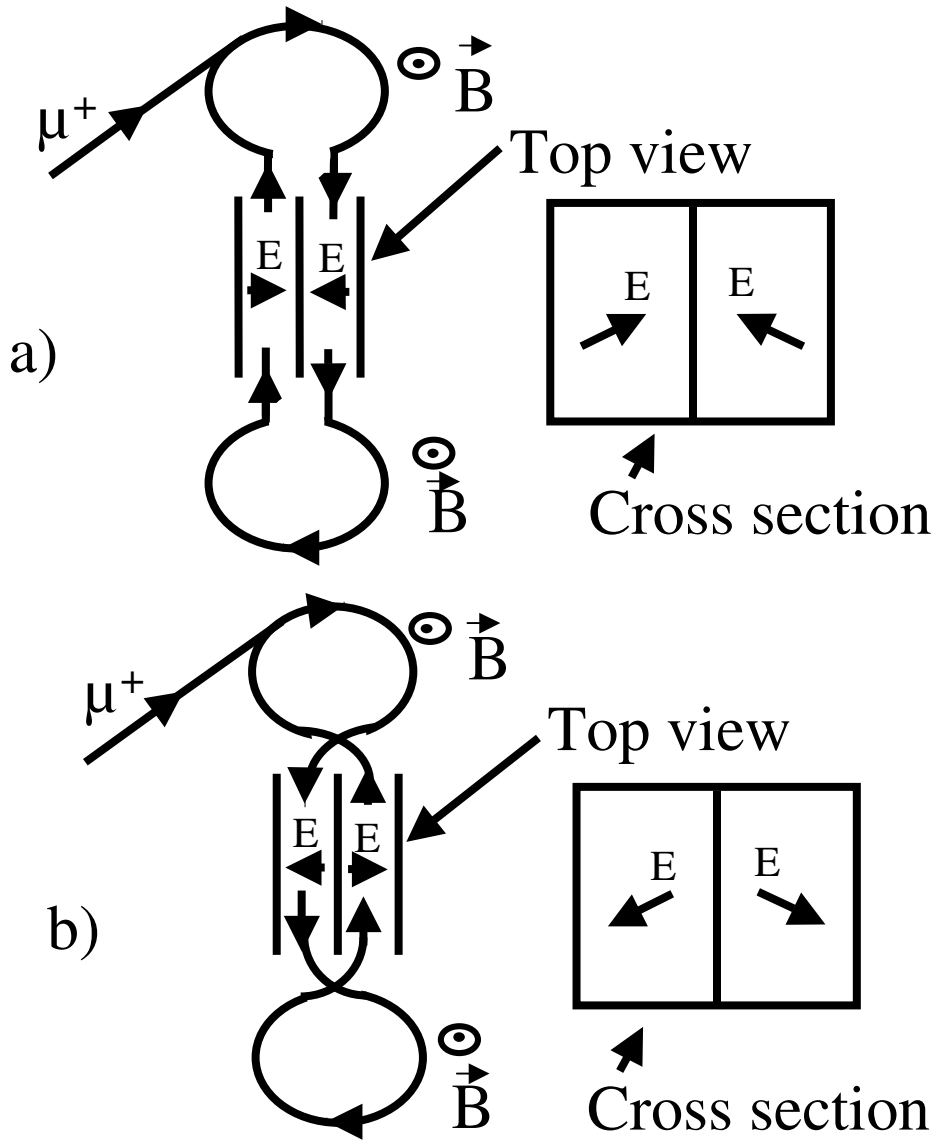

Figure 3: The top view (and cross section of the E-field shown here with a net misalignment) of a possible ring configuration in a dedicated muon EDM experiment with a DC E-field.
a) The E-field region is only present in the straight section and the field direction is such that it cancels the g-2 precession.
b) The E-field direction is flipped and the muon beam direction also changes to comply with the above requirement to cancel the g-2 precession. In this case the out of plane E-field component (the main systematic error) is automatically cancelled.