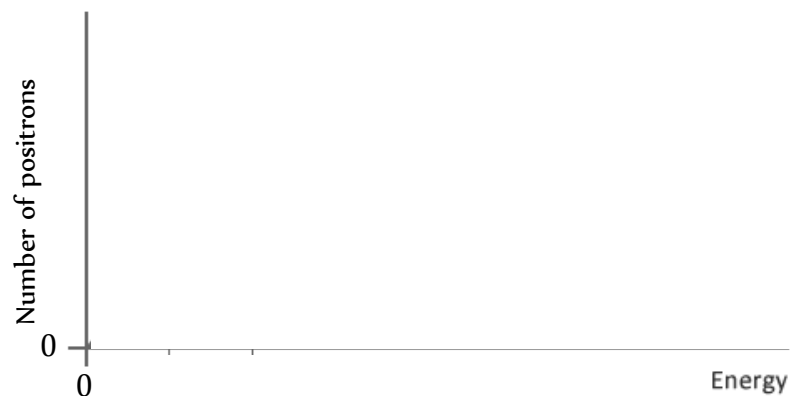


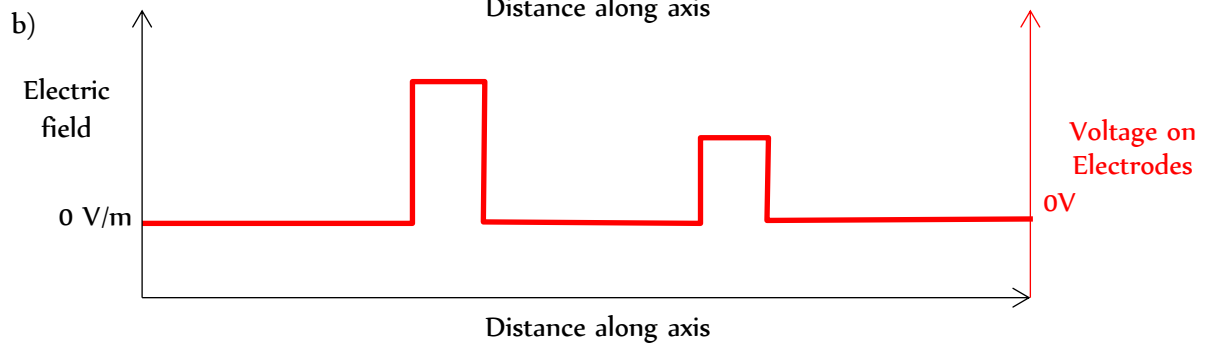
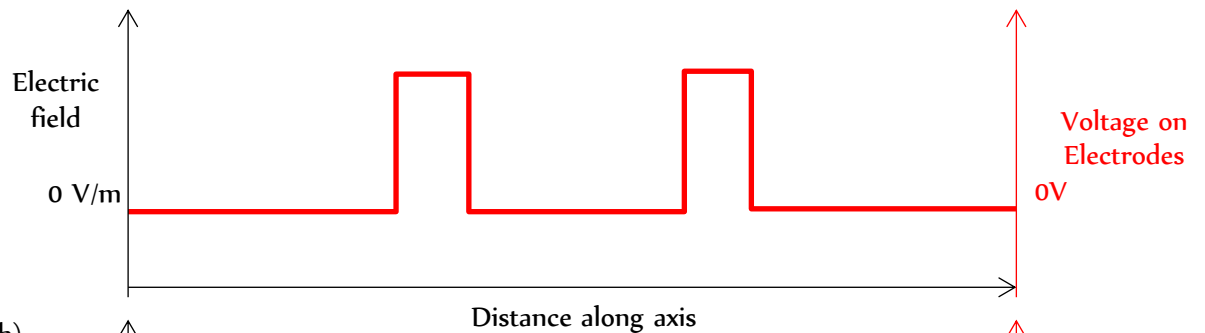
# Measuring Temperatures

(contact [peter.knapp@cern.ch](mailto:peter.knapp@cern.ch) for questions)

1) What do you think the distribution of positron energies looks like in a typical plasma?



2) a) What do you think the electric field looks like if these are the electrode potentials?



3) Draw the graph of  $y = 2^{-x}$

How would you change the  $y$  axis to make the graph a straight line?

# Detecting Annihilations

1) a) List all the different pions that can be made with by combining two from the list.  
The combinations require **one quark and one antiquark**, so  $ud$  isn't allowed.

$$\bar{u} \quad u \quad \bar{d} \quad d$$

Combination	Charge

2) Determine how many antihydrogen atoms annihilated and where they annihilated

