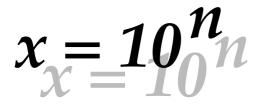
LIVERPOOL PHYSICS OLYMPICS





Fermi Quiz

Aim To estimate the values of various quantities

• For each of the questions listed on the next sheet, give the *integer* closest to the *base 10 logarithm* of the answer (*i.e.* if the answer is

 10^n , give n to the nearest integer)

• The mark given to each question will be the difference between the

value given and the correct value

ConditionsThe answer must be given in the units specified

• For those quantities that must be guessed the judge's decision is

final (i.e. the judge is always right, even when he's wrong)

Time limit To be completed by the end of the fourth event

Ranking The ranking order will be determined by the sum of the marks for all

of the questions – the lowest marks get the highest rank