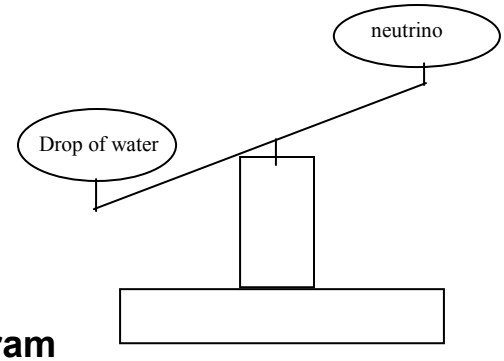
RESEARCH PROJECT #2

How little are neutrinos?

Feel how heavy these objects are.
How do they compare to how heavy a neutrino is?

Kid Brother (6 year old kid) ….. 25,000 grams
Paperback Book …….. 200 grams
Spoon ……. 35 grams
CD ……15 grams
Key …….. 8 grams
Pen or Pencil……. 5 grams
Piece of Paper …….. 4½ grams
Penny…….. 2½ grams
Napkin ……. 2 grams
Kleenex® Facial tissue ……. 1½ grams
Paper Clip …….. ½ or 0.5 gram
Tic Tac® ……. ½ or 0.5 gram
Cotton Ball …… 1/3 or 0.3 gram
Piece of Grass …… 1/10 or 0.1 gram
Pinch of Salt …… 1/13 or 0.08 gram
Drop of water ……..…… 1/20 or 0.05 gram



A neutrino weighs less than
0.00000000000000000000000000000000002 grams!

This means that you would need about:
1 billion x 1 billion x 1 billion x 1 million neutrinos
(1,000,000,000,000,000,000,000,000,000,000,000) to be as heavy as a Kleenex®.

That is more neutrinos then there are drops of water in the oceans!!!