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# Appendix #1 to the program version 3.1

# The hypothesis of the existence of a point charged particle with
# a charge 60 times less than the charge of an electron

# Minimum charge amount
# in proton
protons_min_charge = min(data5['Value "chargep"]', key=abs)
# in neutron
neutrons_min_charge = min(data5['Value "chargen"]', key=abs)
# in pseudo proton
protopsns_min_charge = min(data5['Value "chargepsp"]', key=abs)
# in pseudo neutron
neutropsns_min_charge = min(data5['Value "chargepsn"]', key=abs)

# Let's compare the minimum values of charges in a proton, neutron,
#pseudo neutron, pseudo proton and
# find the value of a point charged particle
if (protons_min_charge == neutrons_min_charge and protons_min_charge <
    protopsns_min_charge == neutropsns_min_charge):
    for i in range(9):
        minimum_charge_amount = (protons[i].charge/protons_min_charge -
                                   protons[i].charge//protons_min_charge)
        minimum_charge_amount = minimum_charge_amount * protons_min_charge
    print('The value of a point charged particle (C): \u00B1', minimum_charge_amount)

# find the mass of a point charged particle taking into account the fact that
# electron mass
me = 9.1093837015e-31
# Qe - electron charge modulo

minimum_mass_amount = me/(Qe/minimum_charge_amount)
print('The mass of a point charged particle (Kg):', minimum_mass_amount)

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