IONIZATION AND FRAGMENTATION OF DNA, RNA BASES INDUCED BY PROTON IMPACT

P.Moretto-Capelle, A.Le Padellec, M.Richard-Viard, J.P.Champeaux and P.Cafarelli

Laboratoire Collisions, Agregats, Reactivité (UMR5589 CNRS-Univ.Paul Sabatier Toulouse 3) IRSAMC 31062

Toulouse cedex 9, France

Damages induced by ionizing radiation can directly be linked to alteration of the DNA molecule. In this work, we investigate interactions between protons and phase gas DNA/RNA bases and nucleoside

Energy loss by a proton in matter? Example of transport of 100 MeV proton in liquid water

