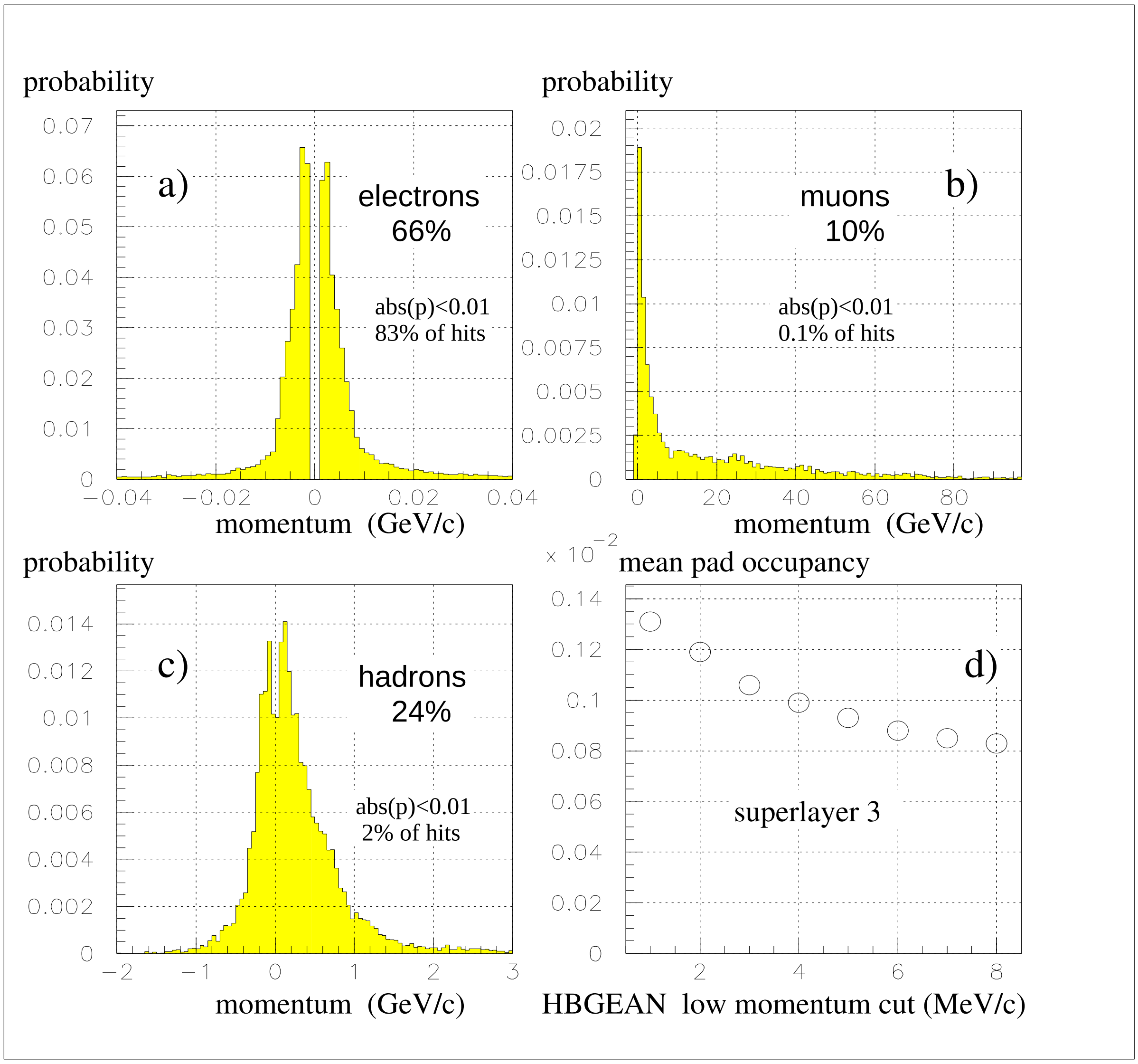

Figure 15: a) Momentum distributions of electrons producing hits in the RUN-98 muon detector. The electrons produce 66% of all hits and 83% of the electrons have momenta less 0.01 GeV/c. b) Momentum distributions of muons producing hits in the RUN-98 muon detector. The muons produce 10% of all hits and 0.1% of the muons have momenta less 0.01 GeV/c. c) Momentum distributions of hadrons producing hits in the RUN-98 muon detector. The hadrons produce 24% of all hits and 2% of the hadrons have momenta less 0.01 GeV/c. d) Mean occupancy of pad in superlayer 3 as a function of HBGEAN low momentum cut.

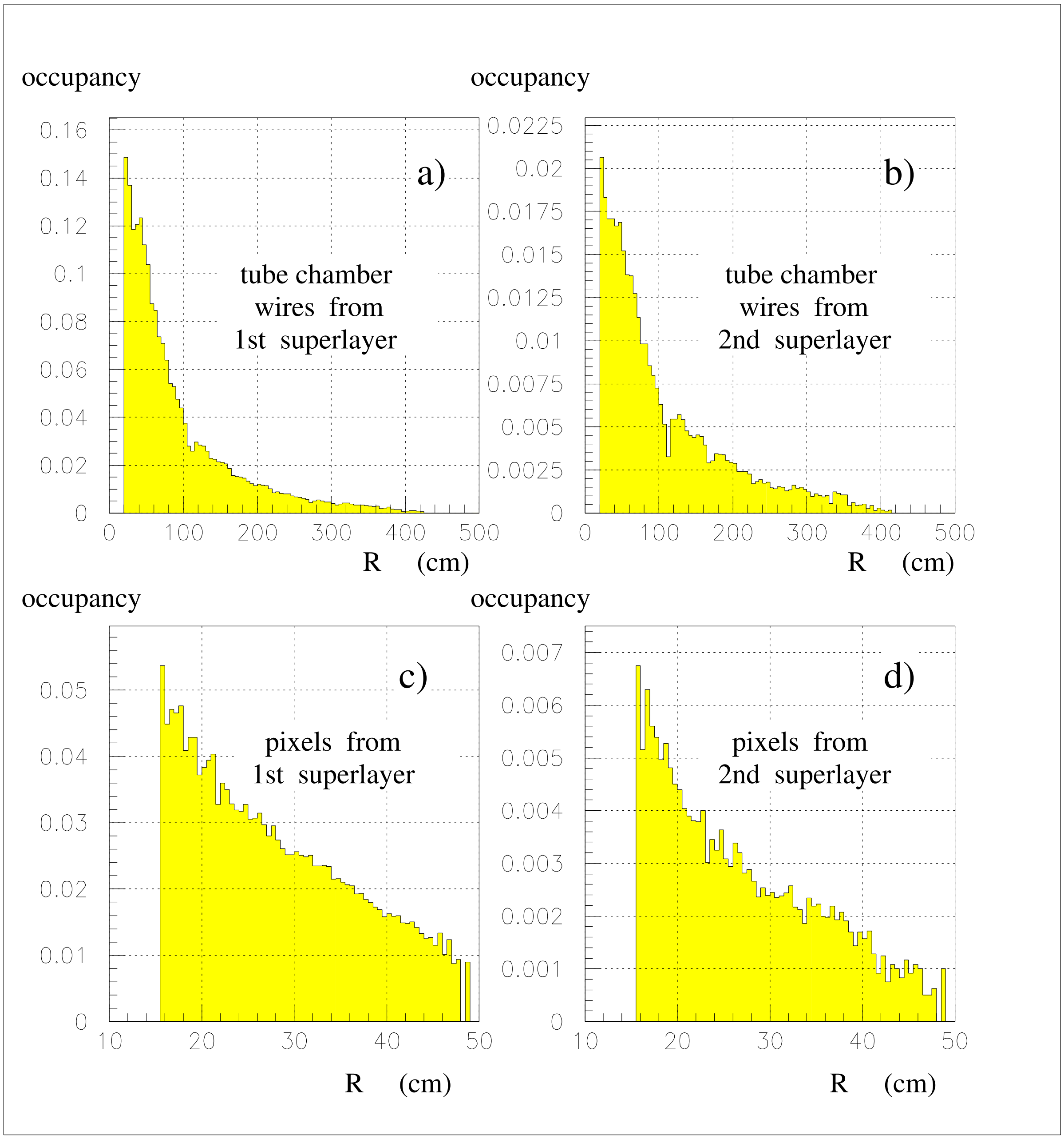

Figure 16: Occupancies of the tube and pixel chambers in the first and in second muon superlayers of the RUN-98 detector geometry. a) Occupancy of the tube chamber wires from first muon superlayer as a function of the minimal distance between the proton beam and the wire. b) Occupancy of the tube chamber wires from second muon superlayer as a function of the minimal distance between the proton beam and the wire. c) Occupancy of the pixels from first muon superlayer as a function of the distance between the proton beam and the middle of pixel. d) Occupancy of the pixels from second muon superlayer as a function of the distance between the proton beam and the middle of pixel.