

HADRONIC INTERACTIONS FOR ATMOSPHERIC CASCADES

Ralph Engel (1), **T.K. Gaisser** (1), Paolo Lipari (2) and Todor Stanev (1)
(1) Bartol Research Institute, Univ. of Delaware, Newark, DE 19716, USA,
(2) Dipt. di Fisica and INFN, Università di Roma I, 00185 Roma, Italy.

We review data on pion and kaon production as it relates to atmospheric cascades. The event generator TARGET has been revised accordingly. We illustrate its use by repeating the one-dimensional calculation of the atmospheric neutrino flux.¹ We will discuss the extent to which improvements in representation of pion and kaon production lead to differences in the resulting fluxes of atmospheric neutrinos.

¹V. Agrawal et al., Phys. Rev. D53 (1996) 1314.