

PARTICLE INTERACTION MODELLING IN HIGH ENERGY PHYSICS

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ABSTRACT

We review the software tools and models used in High Energy Physics to describe elementary particle interactions, with emphasis on those which would be most appropriate for application to the field of Cosmic Ray Physics. We discuss the standard Monte Carlo programs in common use and various specialised modifications, ranging from the modelling of very high energy interactions to softer processes of importance in simulating detector performance. The possibilities for a unified framework of common software suitable for high energy and cosmic ray physics is discussed.

INTRODUCTION

The modelling of high energy interactions using Monte Carlo techniques is invaluable in High Energy Physics (HEP) for understanding the signatures of processes of interest, the backgrounds from processes of lesser interest, or the response of detectors to various particles which traverse them.

The tasks of interest may be divided into two categories: high energy processes and low energy processes, where the latter are generally pertinent to studies of the detector response. We describe how each of these categories is handled and the two programs used which are of most relevance to the field of cosmic ray physics. The programs discussed are part of the CERN program library¹ and are freely available from the CERN IT division.

HIGH ENERGY INTERACTIONS

The traditional focus of much of High Energy Physics has been to try to reach the highest centre-of-mass energies possible by colliding point-like particles such as electrons and positrons, or the point-like constituents (quarks, antiquarks, and gluons) of hadrons such as protons and antiprotons.

A large fraction of these collisions result in rather small momentum transfers such that particles scatter through small angles. The collisions deemed of greatest interest are usually those where a large energy is available for the production of new particles, due either to the exchange of gauge bosons (such as photons, gluons, $W^\pm$ and Z^0) in the Standard ($SU(3)_c \times SU(2)_L \times U(1)_Y$) Model or to point-like interactions which are usually assumed to be approximations to interactions involving more massive particles in some grander theory. A variety of programs exist to handle processes of the hard collision of one particle with another and the production of particles from that interaction. The program most prevalently used to simulate hadron collisions is PYTHIA (Sjöstrand, 1986, Sjöstrand and Bengtsson, 1987, Bengtsson and Sjöstrand, 1987, and Sjöstrand, 1993).

PYTHIA is a Fortran 77 program which simulates a wide variety of particle collisions. Of particular interest to the field of cosmic rays are the hadron-hadron collision processes. Most effort has been dedicated to the complete and accurate simulation of high Q^2 processes, although low Q^2 processes, such as diffractive and elastic scattering of (anti-)protons are included. While PYTHIA is not really aimed at modelling the wide range of possible nucleus-nucleus interactions, it includes books which facilitate the addition of arbitrary processes and many parameters which may be adjusted to reproduce experimental data.

PYTHIA handles events in the following manner:

- Two particles are coming in towards each other. Each particle is characterised by a set of parton distribution functions, which defines the partonic substructure in terms of flavour composition and

¹See <http://wwwinfo.cern.ch/asdf> on the World Wide Web.

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