SIM Software Status

SIMGAM

- Latest version is 13, updated 12-May-94. Included D1 and D2 singles mode options.
- Option for simulating cascade events is presently undergoing testing.
- Known bug in diffuse simulation option has been corrected in test version.
- Next version (due soon) will incorporate both of these changes.
- Option for simulating photon source (e.g., 2.2 MeV) within veto domes is planned (already partially tested).

SIMFIN

- Latest version is 10, updated 9-Sep-94. Corrected error in ISS file processing (new format), which was responsible for lack of location broadening.
- Versions 5-9 have no location smearing.
- Known error in handling of TRK files (in specifying number of events to process).

SIMPSF

- Latest version is 8, updated 17-Nov-94. Enlarged arrays sizes.
- Versions 1-6 provided improper binning definition. (Versions 7 and 8 are ok.)

SIM Software Status

SIMSPG

- Latest version is 3, updated 3-Jun-94. Corrected problems with spectral weighting.
- Input list are now available for generating PSFs for the following energy ranges: 0.75-1.0, 1.0-3.0, 3.0-10.0, 10.0-30.0, 0.75-30.0 and 1.0-30.0 MeV (see COM-RP-UNH-SIM-043 for complete listing).
- Although no formal documentation has been generated, the help text is complete.

SIMTRK

- Latest version is 2, updated 31-Jan-94. Corrected problems with escaping energy flags.

SIMENE

- Latest version is 9, updated 29-Nov-94. Corrected various problems, including handling of new ISS format and the logical sequencing of event processing.

SIM PSF Status

- SIMPSF v1-6 have improper coordinate definition. All IAQ/FAQ now have negative QF.
- SIMFIN v5-9 does not have location smearing. All EVP (and associate IAQ/FAQ) now have negative QF.
- All EVP/IAQ/FAQ with negative QF have been regenerated.
- IAQ lists (used in SIMSPG) has been regenerated.
- IAQ lists available for : .75-1 MeV, 1-3 MeV, 3-10 MeV, 10-30 MeV, .75-30 MeV, and 1-30 MeV (see COM-RP-UNH-SIM-043).
- Standard power-law PSFs from SIMSPG available for a full range of indices (1.4 to 3.0) and for all energy ranges (see COM-RP-UNH-SIM-043, issue 2, dated 30-Jan-95).
- List of Wien PSFs has been updated (see COM-RP-UNH-SIM-045, dated 21-Feb-95).
- All new PSFs have been distributed to each site (also to SSC).
- New perl-based report generator now available. Used to generate latest status document (COM-RP-UNH-SIM-032, v9).

Future SIM Plans

- Generate IAQ libraries for additional energy windows? If so, which ones? Can IAQ/FAQs from different energy ranges be added?
- Generate SIM library for other zenith angles?

PSF Event Requirements