Pre-Phase A Activities

Previous meeting: Palermo, 3-4 May 2001

(in conjunction with the EUSO meeting on "Simulation, Ground Segment, Outreach")

Next meeting: Annecy, 4 October 2001

(in the framework of "Software environment for simulations and data analysis")

Pre-Phase A Activities

Palermo, 3-4 May 2001

Specific items of interest for Scientific Data Analysis and Data Handling:

❖ **Data content**: scientific, housekeeping, ancillary, ISS

❖ **Data size and telemetry**: EECR, atmosphere sounding, atmospheric phenomena

❖ **Data analysis system**:

  ❖ algorithms for event reconstruction (geometry, energy)

  ❖ background estimation

  ❖ atmosphere sounding

  ❖ software environment

❖ **Instrumental response study**: from simulated data

❖ **Documentation**

An overview of "critical points" in the definition of the

EUSO Scientific Data Analysis has been given at the

27th ICRC, Hamburg, Germany, August 2001

"EUSO: Ground Data Handling and Outreach"

M.C. Maccarone and T. Mineo

Proc. ICRC 2001, Vol. HE, pp.852-855

Phase A Activities

Annecy, Tuesday, 4 October 2001
"Software environment for simulations and data analysis"

What we have to do for EUSO-Phase A "Scientific Data Analysis"?

Introduction on:

❖ **data content, size, and telemetry**

❖ **data analysis package (and environment)**

  ➢ **to reconstruct simulated data,**

  ➢ **to study the EUSO instrumental response, and then**

  ➢ **to help the optimisation of the instrument design itself**

❖ **participant people**

❖ **time schedule in accordance with the rest of EUSO Phase A**

Phase A Activities

Strict correlation with the other EUSO Subsystems, mainly:

➢ **"Trigger & OBDH"**

➢ **"Atmosphere Sounding"**

➢ **"Simulations"**

➢ **"Ground Segment"**