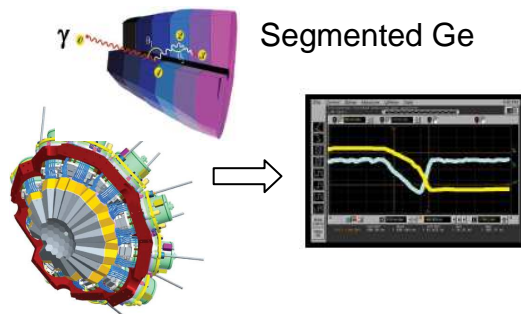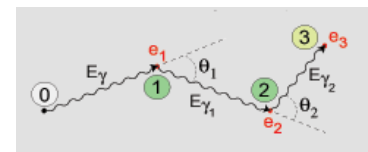# Application :   AGATA Pulse Shape Analysis and γ-ray Tracking on the GRID

Segmented Ge

Pulse Shape Analysis to decompose recorded waves: **PSA Algorithm**
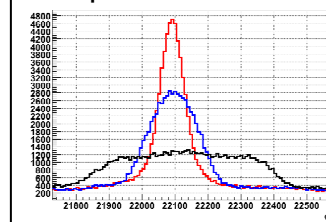
Identified Interaction **(x, y, z, E, t)**

Reconstruction of tracks: **γ-ray Tracking Algorithm**

Adapted to Run on the GRID

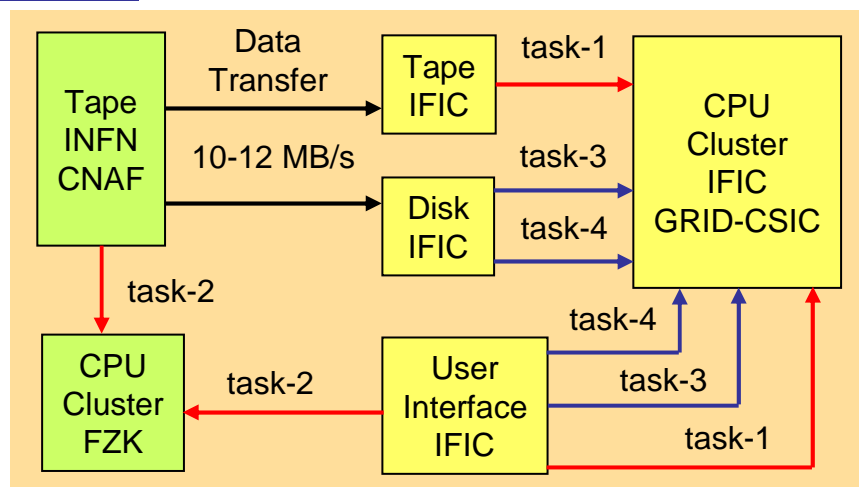**Reconstructed γ-ray**

Response of AGATA

GRID Resources used :

GRID-CSIC : 50 cores (2GB per core, SLC5)
2.5 TB Disk storage (Lustre)

OTHERS : Additional storage 0.6 TB Tape (Castor)
Other EGEE clusters (CANF, FZK, MANCH.)

Tests and Results :

Tape INFN CNAF

Data Transfer

10-12 MB/s

task-2

CPU Cluster FZK

task-2

Tape IFIC

Disk IFIC

task-1

task-3

task-4

User Interface IFIC

task-4

task-3

task-1

CPU Cluster IFIC GRID-CSIC

task-2

Task-1: 14 jobs, 0.6 TB data   **Task-2**: 40 jobs, 2.0 TB data
Task-3: 14 jobs, 0.6 TB data   **Task-4**: 49 jobs, 2.1 TB data