**PERA - FOLDER CONTENTS**

***Database***: contains all the .mat files with the raw data saved in a Matlab variable, a N by M matrix where N is the number of events; M is the number of detection channels.

***Functions***: folder containing routine functions employed by the main algorithms. Description of some of the function is reported in the document *Function List.*

***Geometries***: folder containing the geometrical configurations of the gamma cameras to be given as input to the reconstruction algorithms.

***Models and Corrections***: folder containing some parameters used by the optical model estimator and by the event reconstruction algorithm.

***LRFs***: folder containing LRFs model generated.

***Optical\_Model\_Estimator***: script for the generation of the LRFs from flood acquisition.

***Reconstruction***: script for event coordinates reconstruction by means of centroid and statistical algorithms.