1 Program 3dFWHM

1.1 Purpose

Program 3dFWHM provides a means of estimating the spatial correlation of voxels in an *AFNI* 3d dataset. In order to use program AlphaSim, it is necessary to know the degree of voxel spatial correlation, so that this can be accounted for in the simulation. Spatial correlation is modeled by applying a Gaussian filter to the random image data. The extent of spatial correlation is specified by entering the width of the Gaussian filter corresponding to each axis. The numbers $FWHM_x$, $FWHM_y$, and $FWHM_z$ (FWHM, for "Full Width Half Maximum") are estimated by program 3dFWHM for a user specified input dataset.

1.2 Further Details

For further details, see Section 2 of *Simultaneous Inference for FMRI Data*, contained in file AlphaSim.ps.