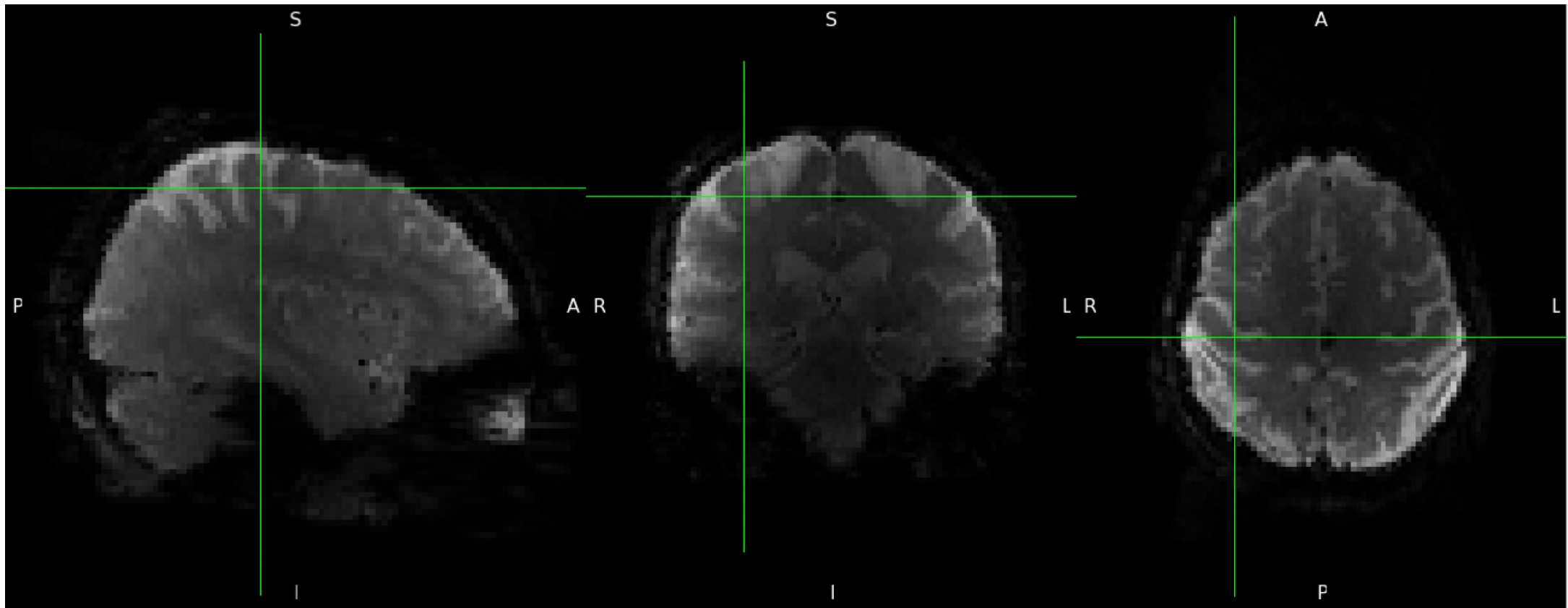
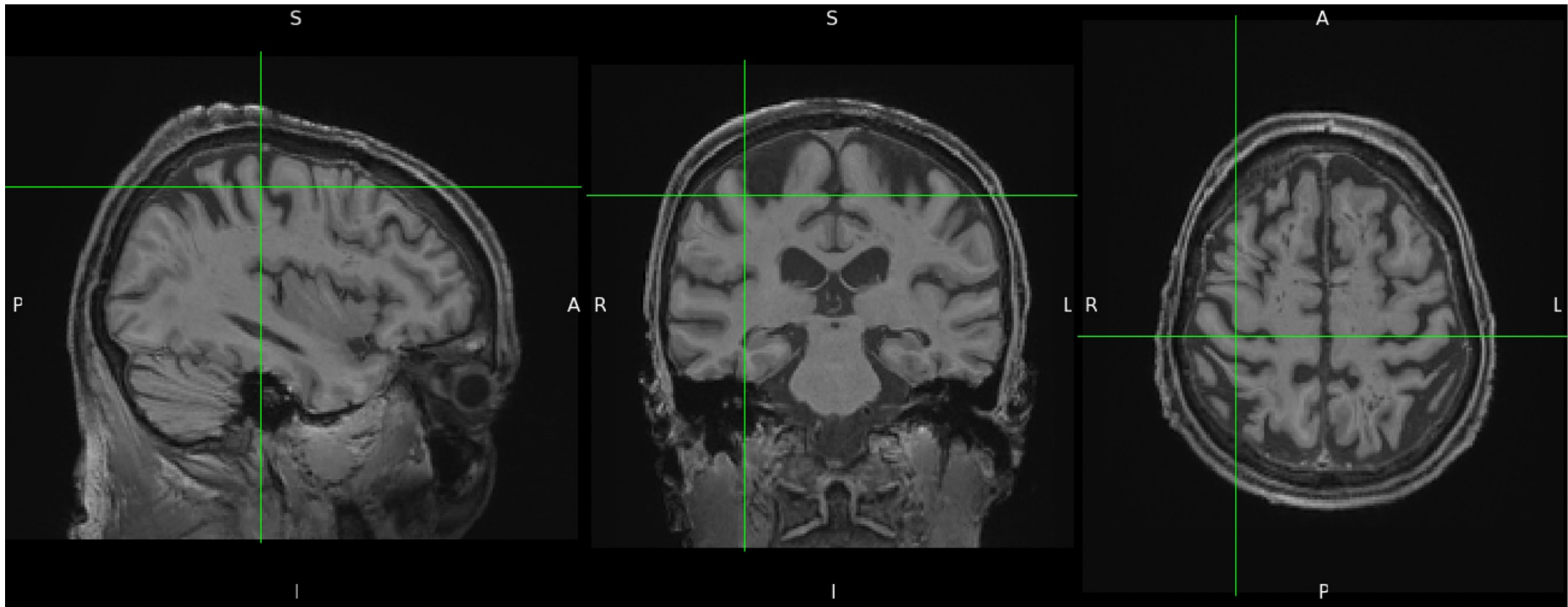


High BOLD signal : Gray Matter (sulci) ??



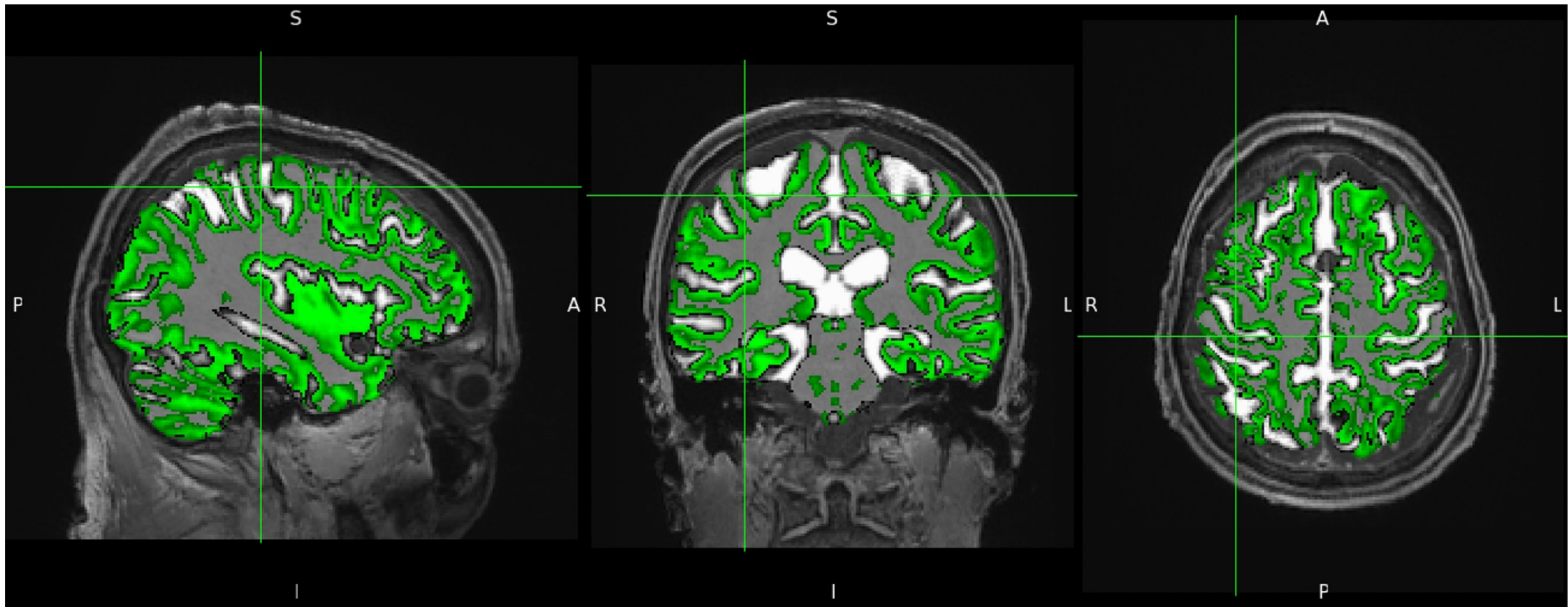
Data : TOLD sub-01 : pre & post session
fmripred-preprocessed BOLD data
MIITRA (elderly) : voxel size = 2mm iso

High BOLD signal : ~~Gray Matter (sulci) ??~~
CSF !!



Data : TOLD sub-01 : pre & post session
fmripred-preprocessed T1 data
MIITRA (elderly) : voxel size = 1mm iso

High BOLD signal : CSF !!



Green : sub-01_space-MITRA_label-GM_probseg (thresholded at 0.15)

White : sub-01_space-MITRA_label-CSF_probseg (thresholded at 0.2)

Data : TOLD sub-01 : pre & post session

Contrast : spmT_0002 : LeftHand High vs Low

Preprocessing : fmripreg

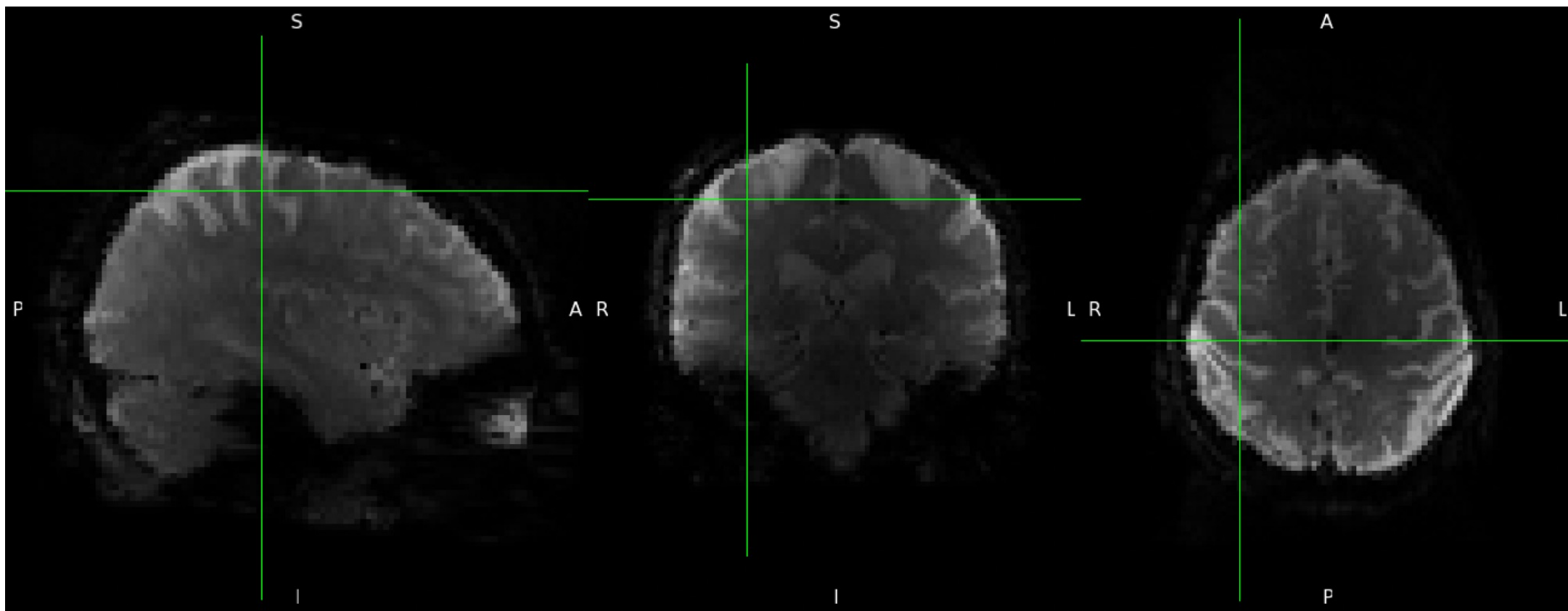
Template : MIITRA (elderly) : voxel size = 2mm iso

Comparison of different types of smoothing (FWHM = 4mm) :

- 1. The classical SPM smoothing**
- 2. AFNI/3dBlurInMask in the anatomy mask (resampled at 2mm iso)**
- 3. AFNI/3dBlurInMask in the GM mask (GM_probseg thresholded at 0.15 & resampled at 2mm iso)**

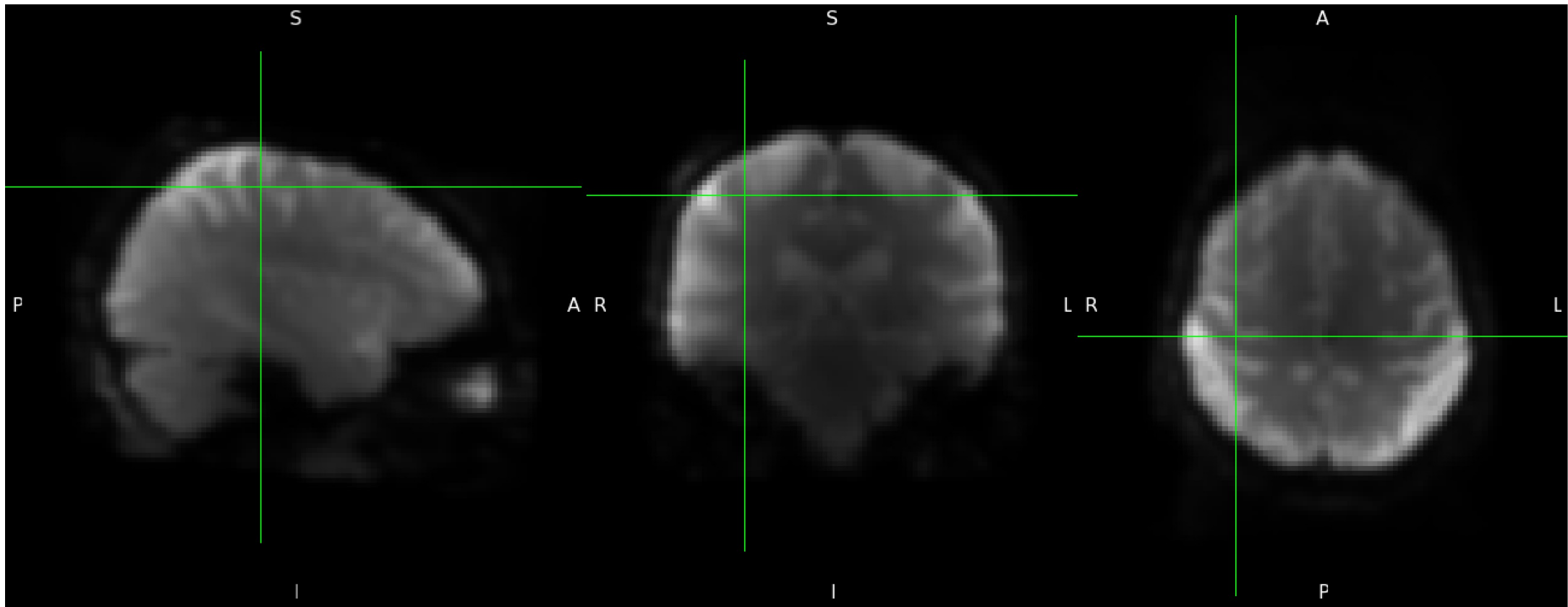
With the corresponding GLM statistical analysis masks :

- 1. union of the 5 runs BOLD masks**
- 2. anatomy mask**
- 3. GM mask (GM_probseg thresholded at 0.15)**

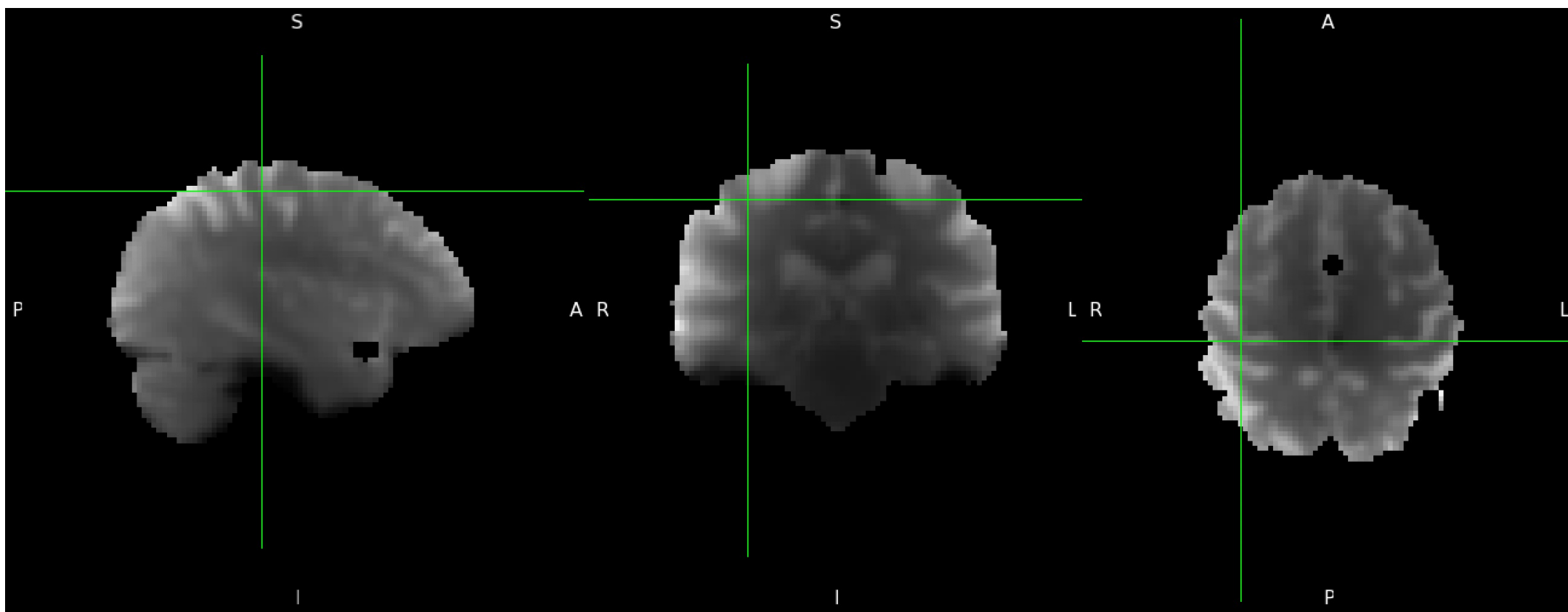


fmripred-preprocessed BOLD data
MIITRA (elderly) : voxel size = 2mm iso

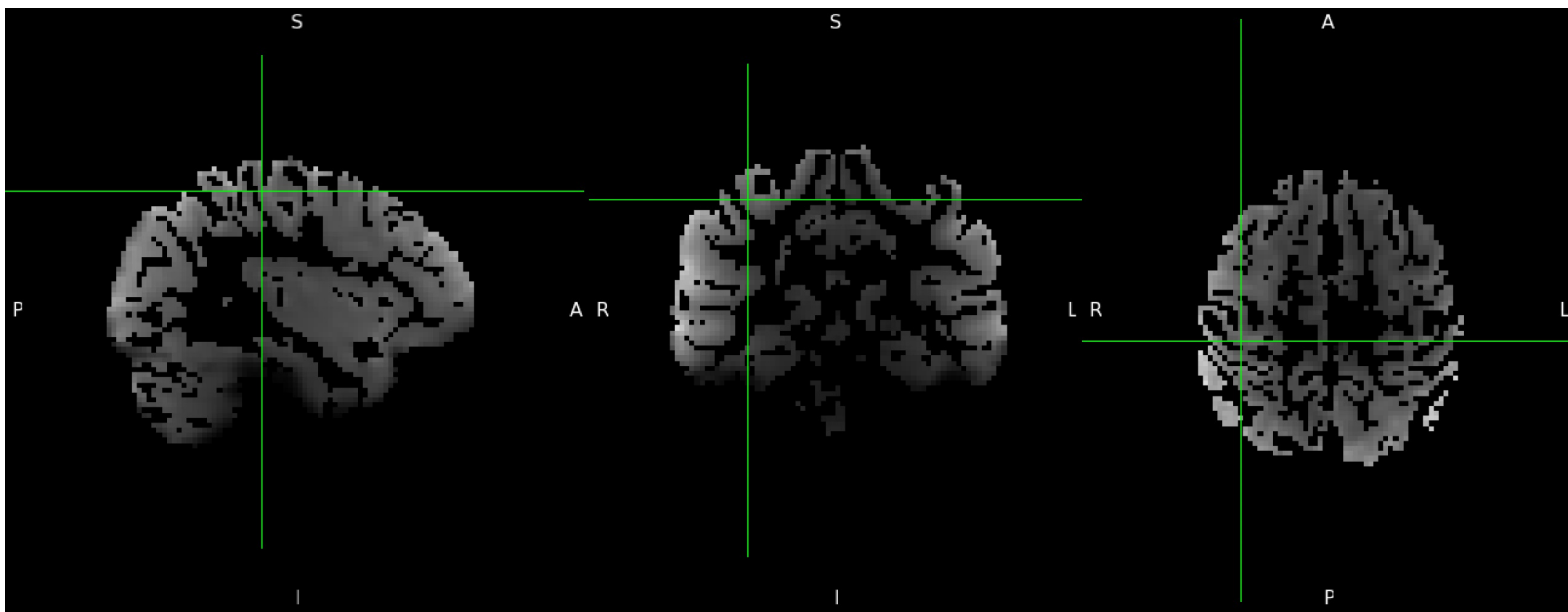
Classical SPM smoothing in union of BOLD masks (FWHM = 4 mm)



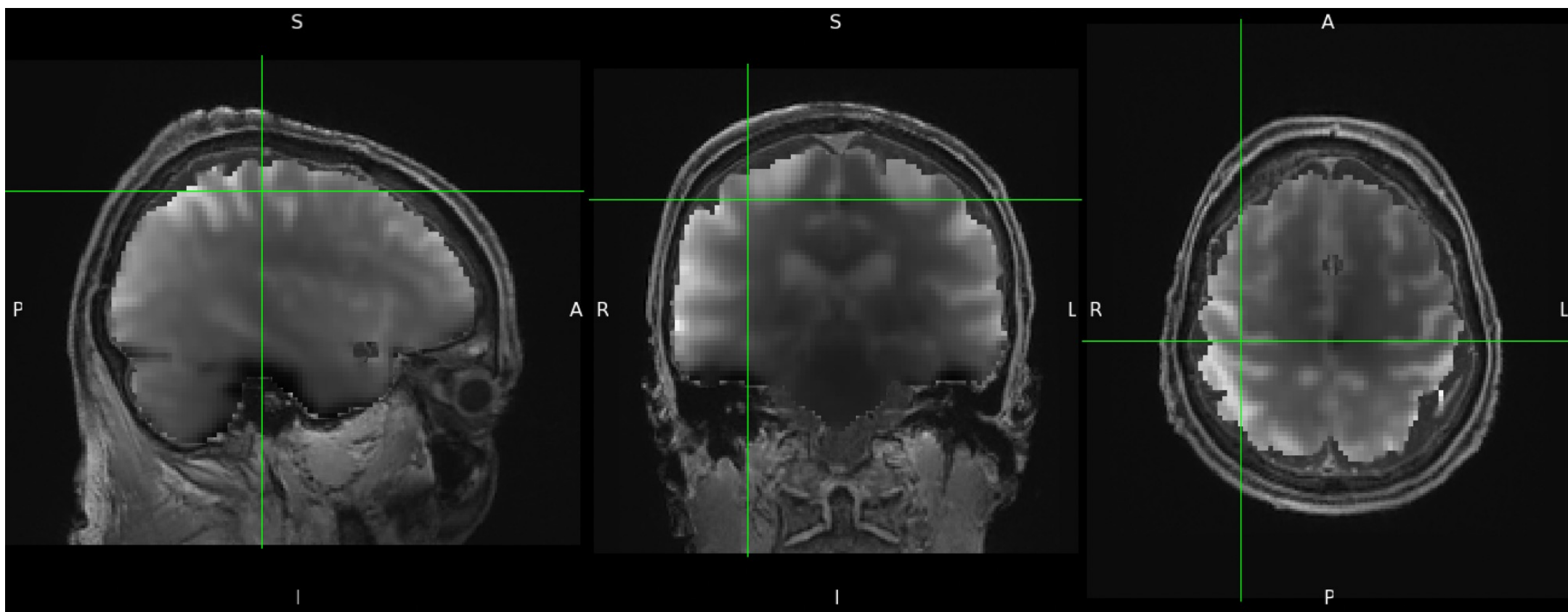
AFNI/**3dBlurInMask** in the anatomy mask (resampled at 2mm iso) (FWHM = 4 mm)



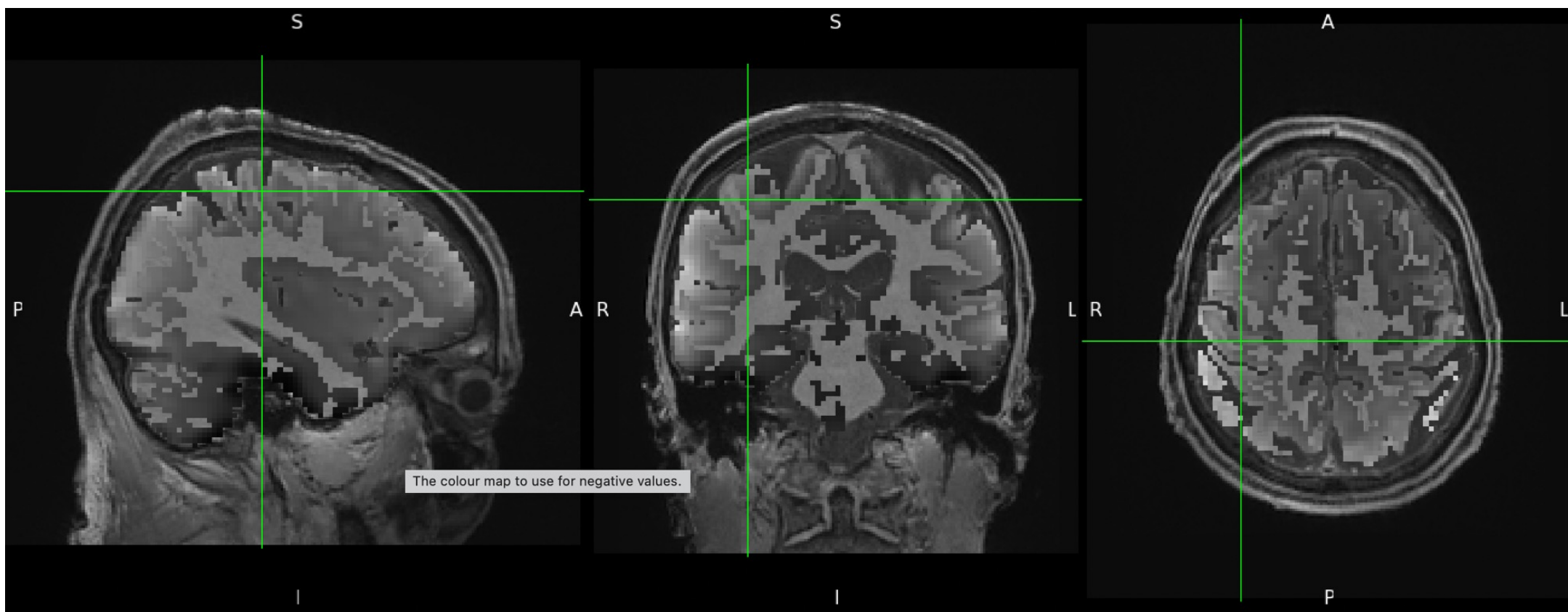
AFNI/**3dBlurInMask** in the **GM mask** (GM_probseg thresholded at 0.15 & resampled at 2mm iso) (FWHM = 4 mm)



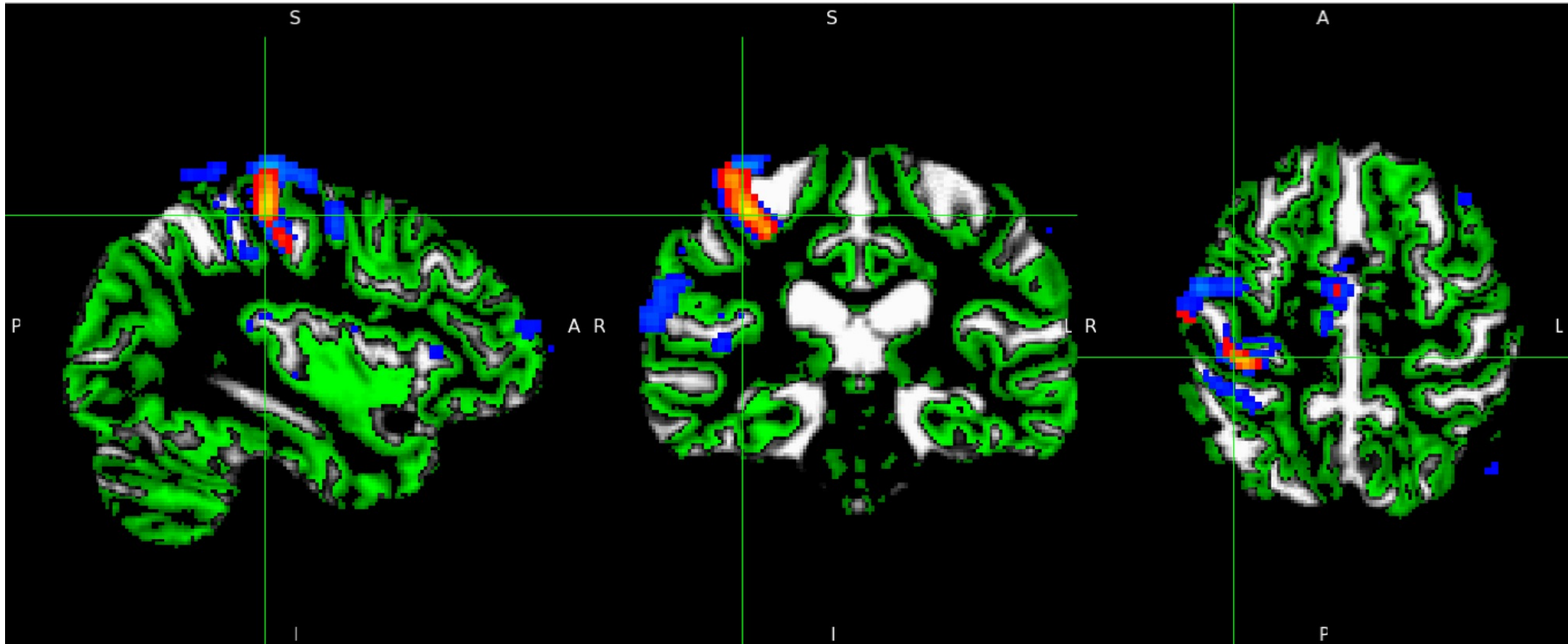
AFNI/**3dBlurInMask** in the anatomy mask (resampled at 2mm iso) (FWHM = 4 mm)



AFNI/**3dBlurInMask** in the **GM mask** (GM_probseg thresholded at 0.15 & resampled at 2mm iso) (FWHM = 4 mm)



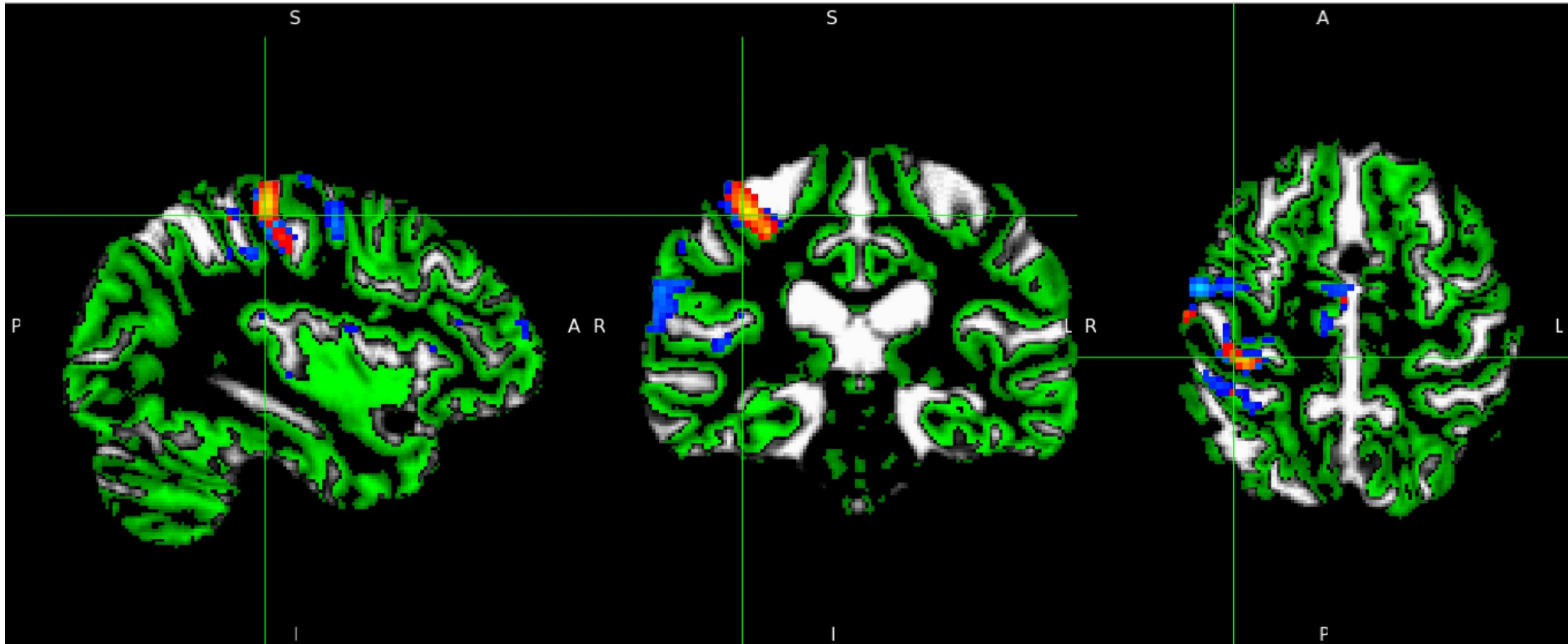
Classical SPM smoothing in union of BOLD masks : LeftHand, pre (red), post (blue), $p < 0.05$ FWE ($T \geq 5.038$)
FWHM = 5.9 5.8 5.3 mm mm mm; 2.9 2.9 2.7 {voxels} Volume: 188929 voxels = 7761.5 resels



Green : sub-01_space-MIITRA_label-GM_probseg (thresholded at 0.15)
White : sub-01_space-MIITRA_label-CSF_probseg (thresholded at 0.2)

Smoothing in mask anat : LeftHand, pre (red), post (blue), $p < 0.05$ FWE ($T \geq 5.004$)

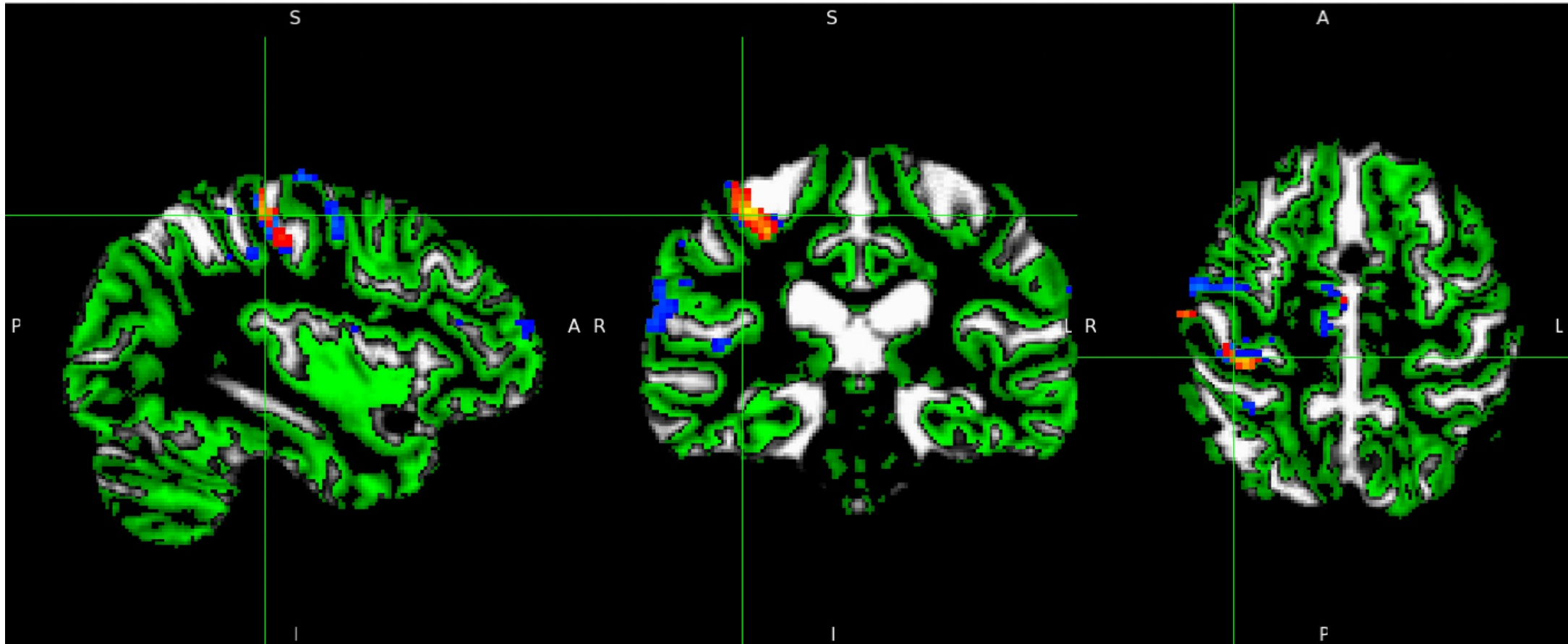
FWHM = 4.8 4.7 4.5 mm mm mm; 2.4 2.4 2.2 {voxels} Volume = 158341 voxels = 11332 resels)



Green : sub-01_space-MIITRA_label-GM_probseg (thresholded at 0.15)

White : sub-01_space-MIITRA_label-CSF_probseg (thresholded at 0.2)

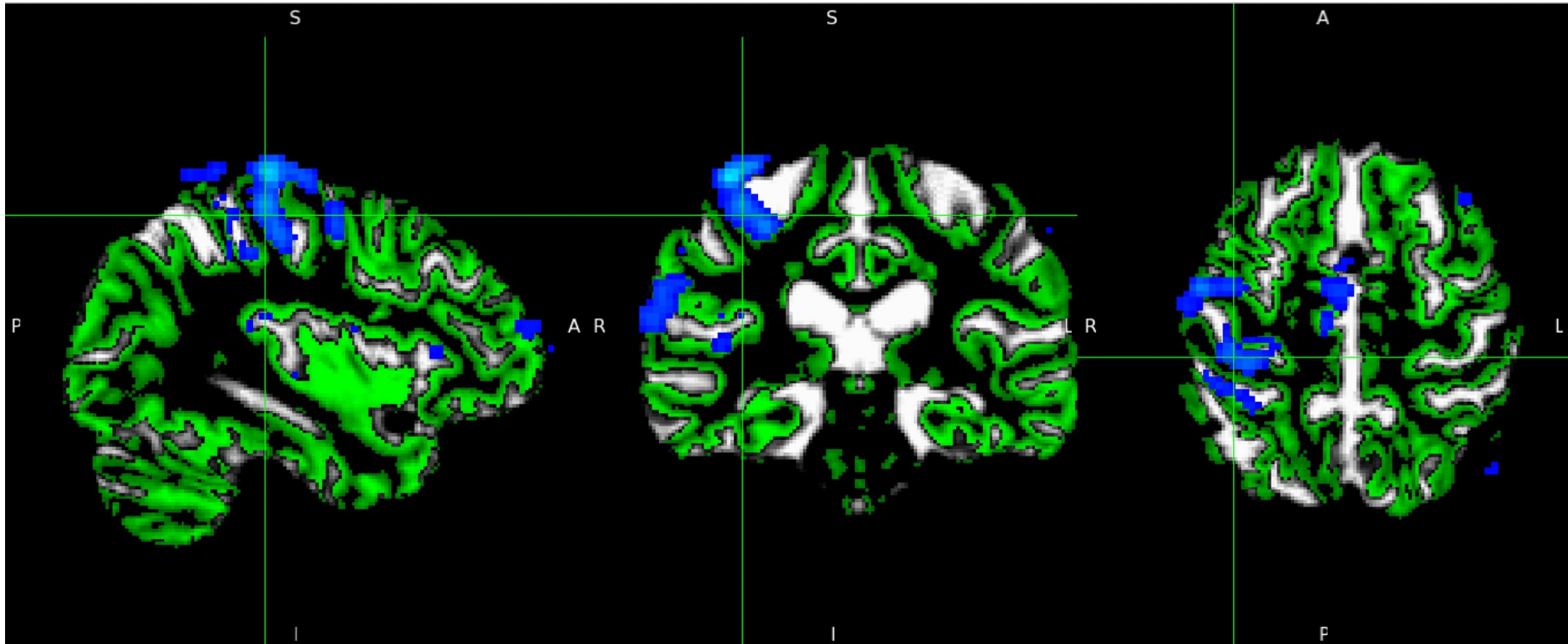
Smoothing in mask GM (thresholded at 0.15) : LeftHand, pre (red), post (blue), $p < 0.05$ FWE ($T \geq 4.924650$)
FWHM = 4.9 4.8 4.5 mm mm mm; 2.4 2.4 2.2 {voxels} Volume: 106070 voxels = 3523.0 resels



Green : sub-01_space-MIITRA_label-GM_probseg (thresholded at 0.15)
White : sub-01_space-MIITRA_label-CSF_probseg (thresholded at 0.2)

- **A tester & valider ...**
- **La suite : travailler sur la surface ...**

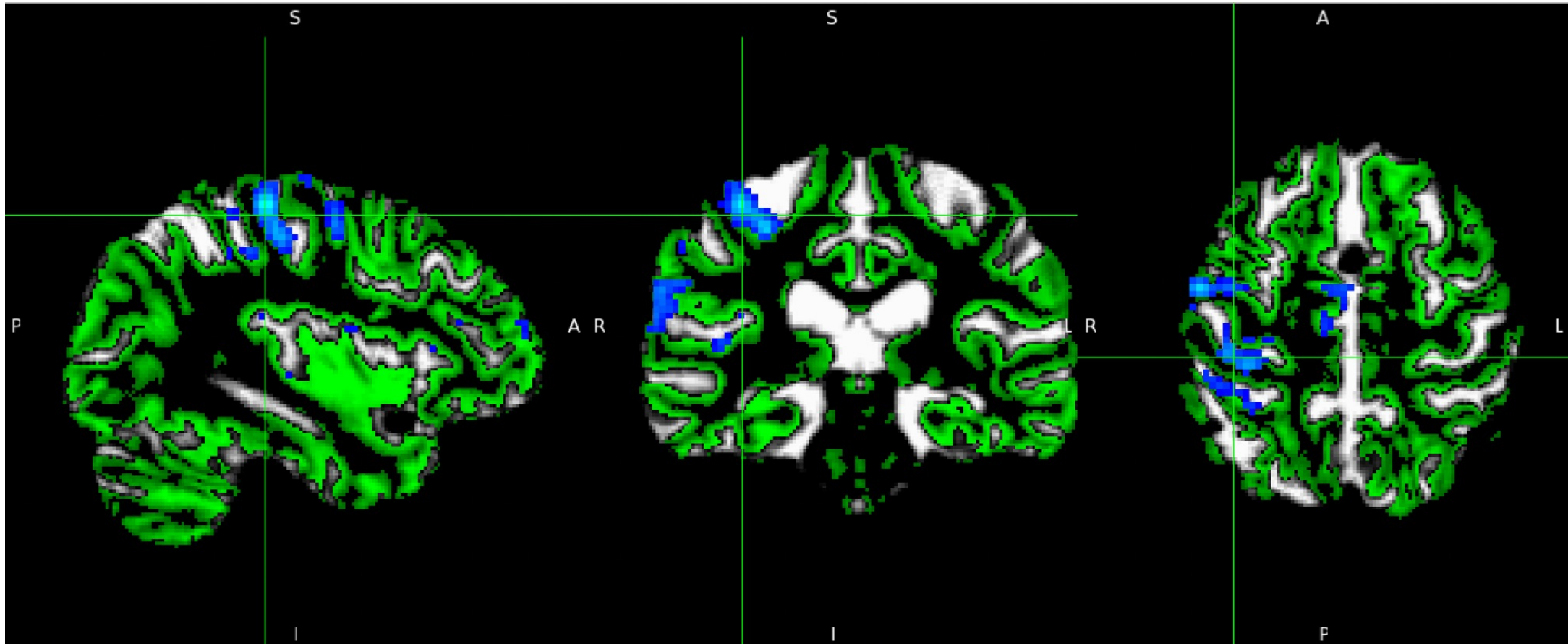
Classical SPM smoothing in union of BOLD masks : LeftHand, pre (red), post (blue), $p < 0.05$ FWE ($T \geq 5.038$)
FWHM = 5.9 5.8 5.3 mm mm mm; 2.9 2.9 2.7 {voxels} Volume: 188929 voxels = 7761.5 resels



Green : sub-01_space-MIITRA_label-GM_probseg (thresholded at 0.15)
White : sub-01_space-MIITRA_label-CSF_probseg (thresholded at 0.2)

Smoothing in mask anat : LeftHand, pre (red), post (blue), $p < 0.05$ FWE ($T \geq 5.004$)

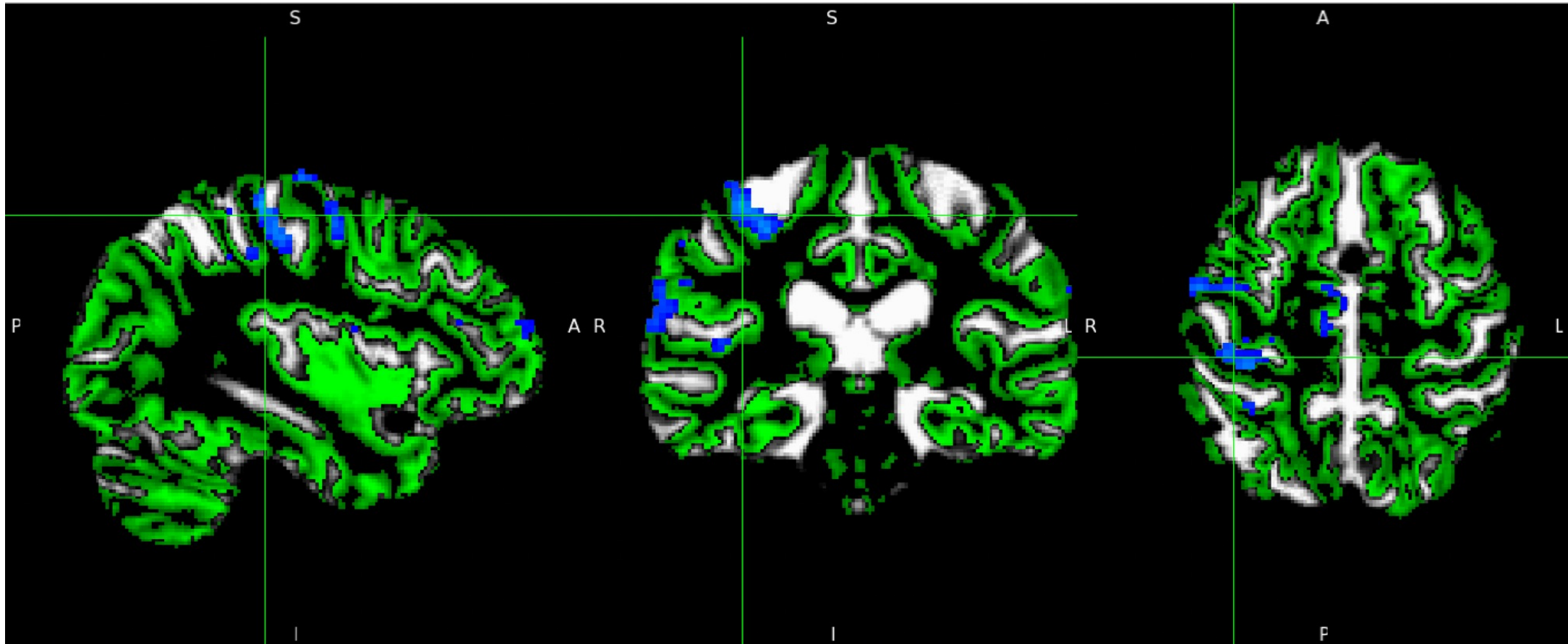
FWHM = 4.8 4.7 4.5 mm mm mm; 2.4 2.4 2.2 {voxels} Volume = 158341 voxels = 11332 resels)



Green : sub-01_space-MIITRA_label-GM_probseg (thresholded at 0.15)

White : sub-01_space-MIITRA_label-CSF_probseg (thresholded at 0.2)

Smoothing in mask GM (thresholded at 0.15) : LeftHand, pre (red), post (blue), $p < 0.05$ FWE ($T \geq 4.924650$)
FWHM = 4.9 4.8 4.5 mm mm mm; 2.4 2.4 2.2 {voxels} Volume: 106070 voxels = 3523.0 resels



Green : sub-01_space-MIITRA_label-GM_probseg (thresholded at 0.15)
White : sub-01_space-MIITRA_label-CSF_probseg (thresholded at 0.2)