myroller.m

* Location: /Users/omega/Documents/MATLAB/alex/E3E4
* Rolls RARE images (and masks, if necessary)
* Inputs
  + RARE image
  + Shift number
* Outputs
  + \_rolled.nii.gz RARE image

QSM\_CODE\_MEstar\_michele.m

* Location: omega/alex/E3E4/qsmpack/
* Registers the GRE image to the RARE images and imposes the RARE mask onto the GRE image through ants registration
* Does a manual roll of every mask2 to match the RARE images
* Inputs
  + RARE image
  + GRE image
  + RARE mask
* Outputs
  + Mask2 (RARE mask with the header from the RARE image)
    - Changed to byte format
  + GREmask (a mask for the GRE image)
  + GREmasked (a masked GRE image)
  + RAREmasked (a masked RARE image)
  + RARE2GRE (a RARE image in the same space as the GRE image)
  + RARE2GREm (a masked RARE image in the same space as the GRE image)

QSM\_CODE\_MEstarshort\_mask2.m

* Location: omega/alex/E3E4/qsmpack/
* Runs QSM using QSM\_star using GRE image and GREmask
* Makes T2star maps
* Inputs
  + GRE image
  + Mask2
* Outputs
  + mGRE.nii.gz (GRE image)
  + \_QSM\_masked.nii.gz
  + T2.nii.gz
  + \_FE.nii.gz

sanemasks.m

* Location: /Users/omega/Documents/MATLAB/alex/E3E4
* Copies image header information from GREmasked.nii.gz to \_QSM\_masked.nii.gz
* Inputs
  + GREmasked.nii.gz
  + \_QSM\_masked.nii.gz
* Outputs
  + \_QSM\_masked.nii.gz

To run the vba pipeline use

scp [omega@vidconfmac:///Users/omega/Documents/MATLAB/alex/E3E4/E4C57live\_input\_parameters\_template.headfile E4C57live\_input\_parameters\_template.headfile](mailto:omega@vidconfmac:///Users/omega/Documents/MATLAB/alex/E3E4/E4C57live_input_parameters_template.headfile%20E4C57live_input_parameters_template.headfile)

and E4livesamba.sh