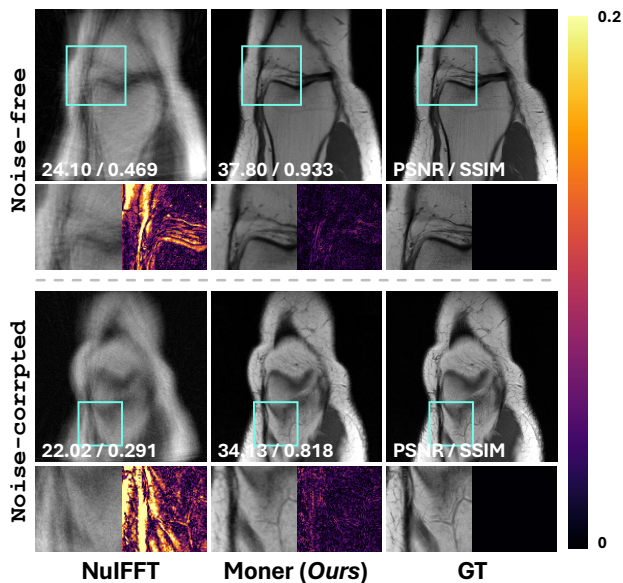
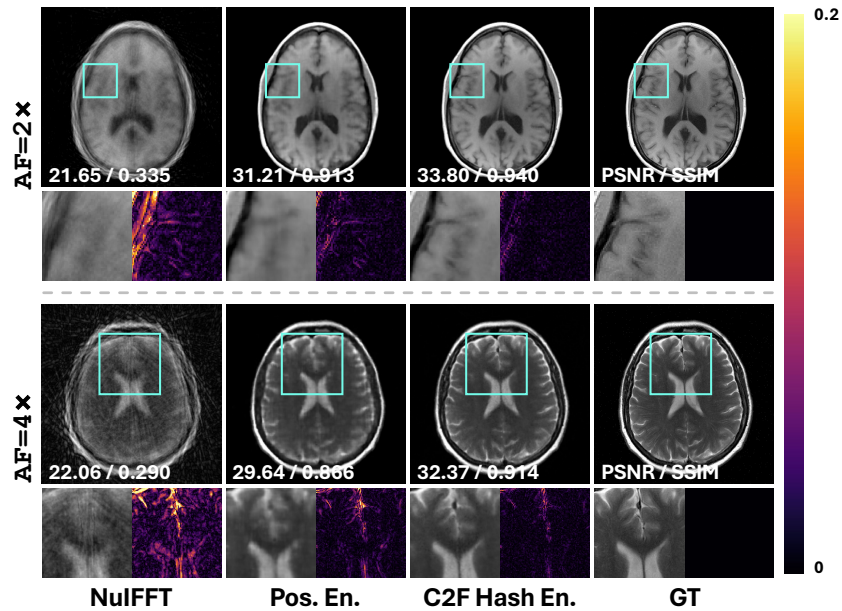


— **SUPPLEMENTARY MATERIAL** —  
**MONER: MOTION CORRECTION IN UNDERSAMPLED RADIAL MRI WITH UNSUPERVISED NEURAL REPRESENTATION**

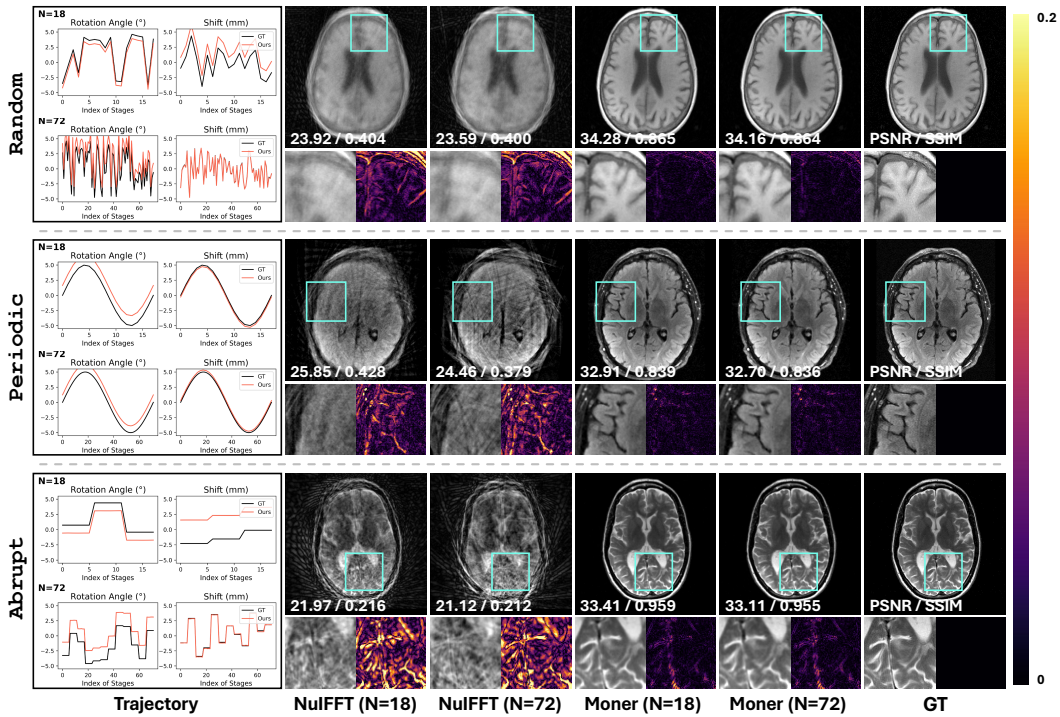


**Figure R 1.** Qualitative and quantitative results of MR images with and without noise by NuIFFT and our Moner on the fastMRI knee dataset (Knoll et al., 2020) for  $AF = 2\times$ ,  $MR = \pm 10$ .

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**Figure R 2.** Qualitative and quantitative results of MR images by our Moner with two different encoding modules on the fastMRI brain dataset (Knoll et al., 2020) for  $AF = 2\times$ ,  $MR = \pm 10$ .



**Figure R 3.** Qualitative and quantitative results of our Moner when simulating different types of motion trajectories and different numbers of motion stages on the fastMRI brain dataset (Knoll et al., 2020) for  $AF = 2\times$ ,  $MR = \pm 5$ .

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