

ATTENTION
Please remove the quad head coil when
not in use or it will be damaged.

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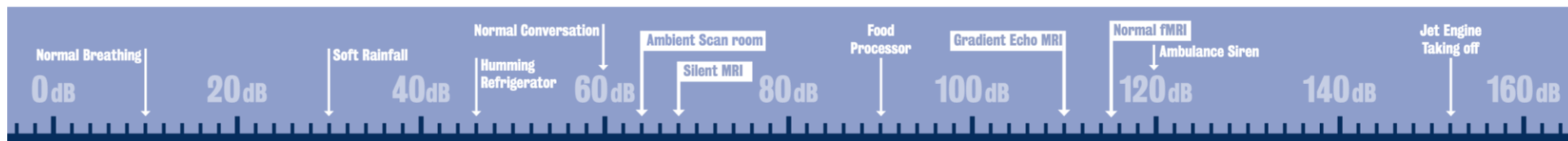
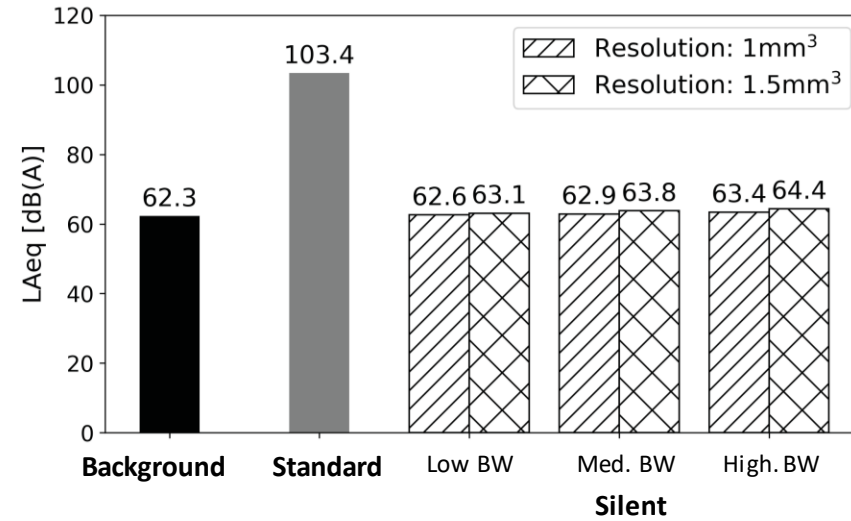
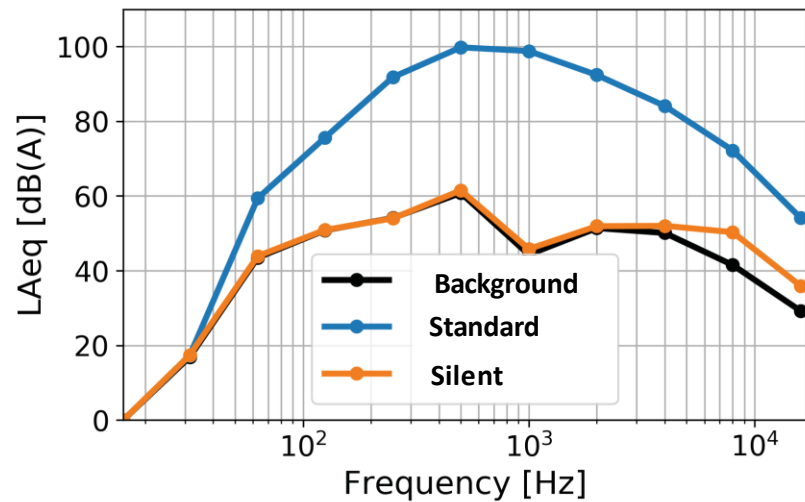
Neurodiverse Pediatric MRI



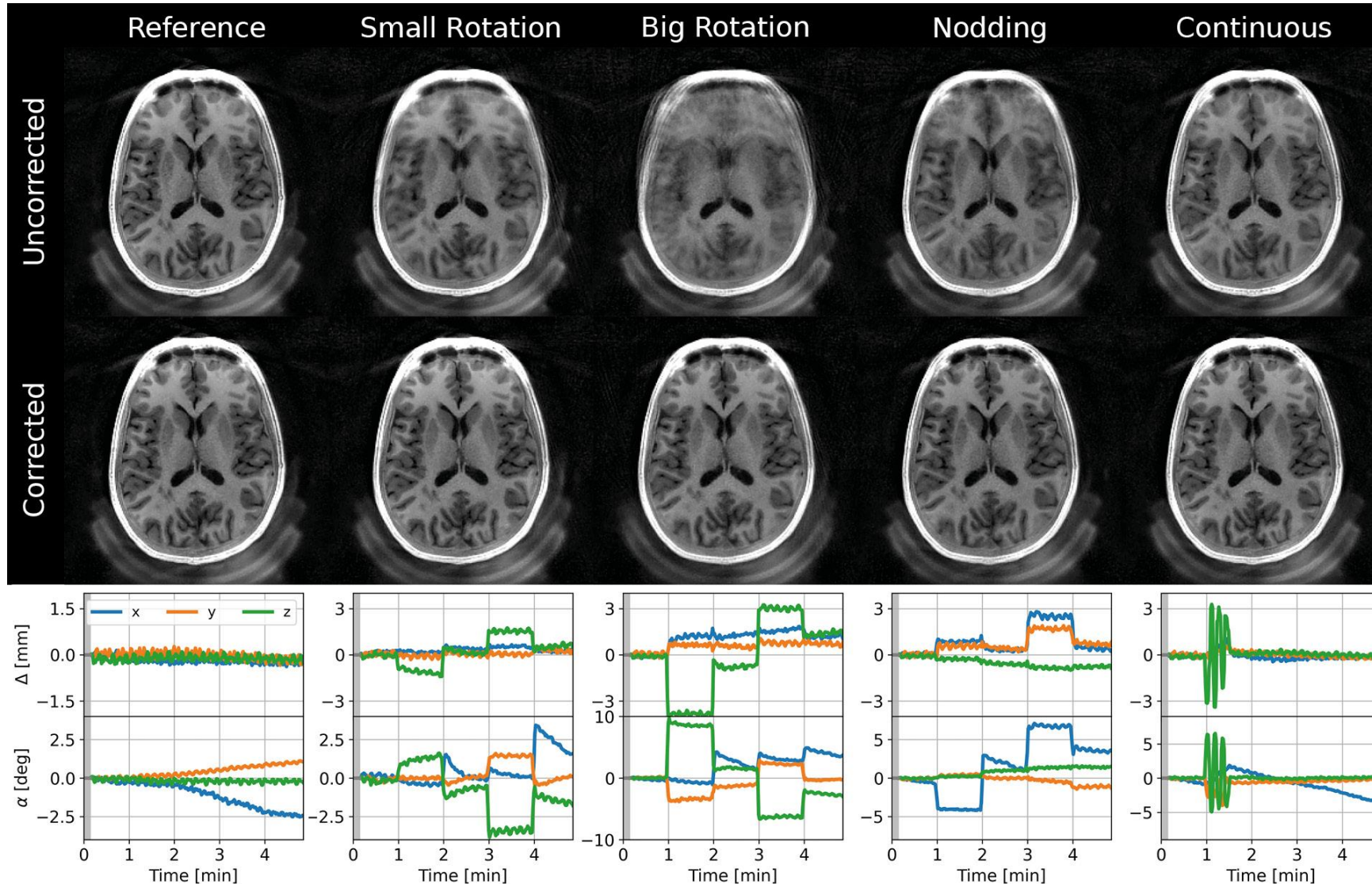
Three Problems:

1. Must ignore the loud noises
2. Must lie still
3. Must lie on your back

1. Loud noises? ZTE is Quiet



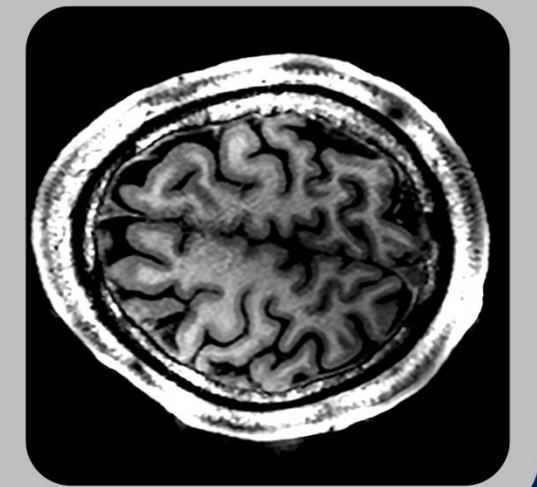
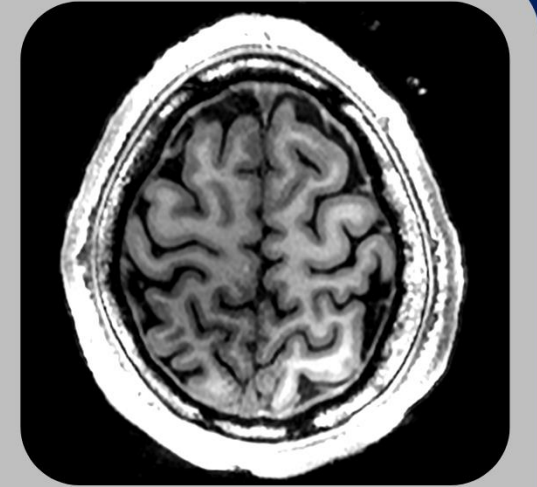
2. Must lie still? Motion Correction



Ljungberg et al 2022

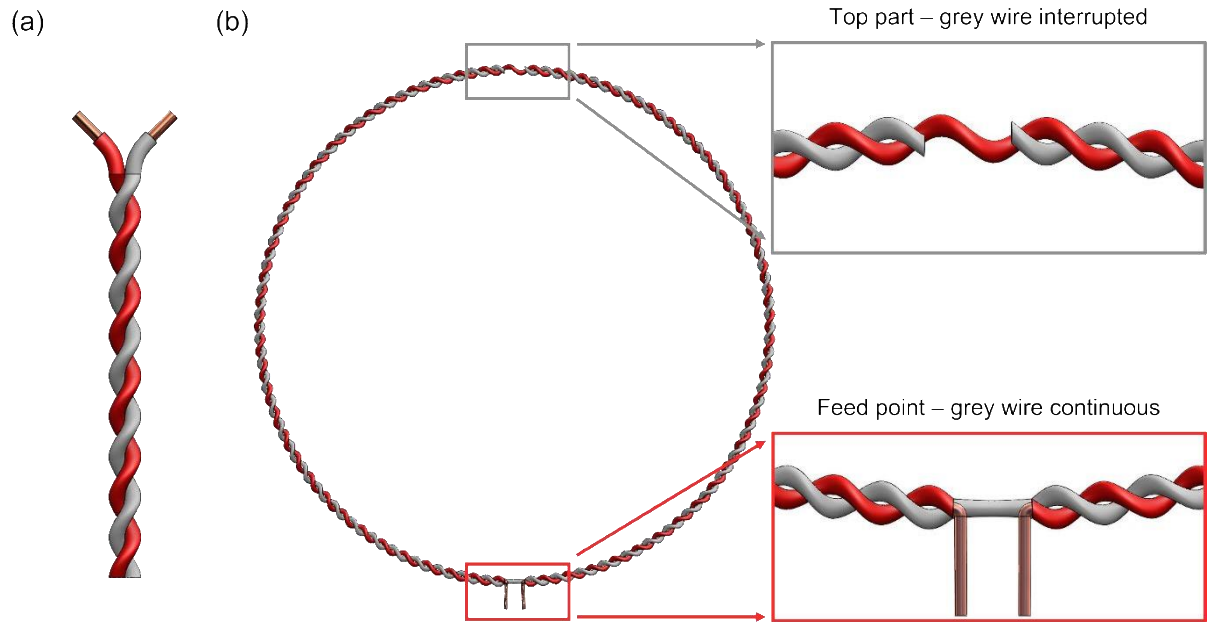


3. Must lie on your back? Flexible Coils



3. Must lie on your back? Flexible Coils

- Novel use of old technology (twisted pair)
- Not commercially available yet – need to fabricate ourselves
- We will customize for different head sizes
- Precedent from EEG skull caps



J. Vliem, Y. Xiao, D. Wenz, L. Xin, and I. Zivkovic, 'Twisted Pair Transmission Line Coil- A Flexible, Self-Decoupled and Extremely Robust Element for 7T MRI'.