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Perfect In-Phase ZTE Imaging for Improved MR Attenuation Correction

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This work details a new approach to acquire and reconstruct zero echo-time (ZTE) data, aimed at removing chemical shift artifacts which is impairing pseudo-CT generation. In order to achieve this a multi-repetition readout scheme was implemented, where consecutive echoes were acquired with different read-out bandwidths (rBW). In the reconstruction data was separated into an in-phase, and an out-of-phase compartment using a regularized inversion of a chemical shift encoding matrix. Phantom and human scans were acquired on a time-of-flight enabled 3.0T PET/MR system.

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