**Docket #:** S07-328

# MRI - Blip design for random sampling compressed sensing of flyback 3D-MRSI with application to Hyperpolarized 13C

A method of providing a magnetic resonance spectral image (MRSI) is provided. A magnetic resonance imaging excitation is applied. Data is acquired, comprising applying an oscillating gradient in a first dimension and applying blips in at least a second dimension in a pseudo-random order to acquire pseudo-random temporally undersampled spectral data in at least two planes. The pseudo-random order is used to reconstruct a magnetic resonance spectral image in at least two dimensions.

## Patents

- Published Application: 20100026294
- Issued: 7,659,718 (USA)

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