

# Resource Summary Report

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## Multicomponent T2 estimation with stimulated echo correction

RRID:SCR\_002446

Type: Tool

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### Proper Citation

Multicomponent T2 estimation with stimulated echo correction (RRID:SCR\_002446)

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### Resource Information

**URL:** [http://www.nitrc.org/projects/multi\\_t2/](http://www.nitrc.org/projects/multi_t2/)

**Proper Citation:** Multicomponent T2 estimation with stimulated echo correction (RRID:SCR\_002446)

**Description:** Software tool designed to assist users in the estimation of multiple relaxation components from MRI T2 weighted spin-echo data such as that produced by a Carr-Purcell-Meiboom-Gill (CPMG) sequence. This problem is important to study myelin content in white matter diseases such as multiple sclerosis. Stimulated echoes arising from non-ideal flip angles are accounted for using the Extended Phase Graph (EPG) algorithm. The distribution is modelled as a small number of discrete components and a Bayesian estimation algorithm is provided to determine the weights and locations of the components as well as the actual flip angle. This algorithm outperforms iterative gradient descent based approaches.

**Abbreviations:** Multicomponent T2 estimation with stimulated echo correction

**Resource Type:** software resource

**Defining Citation:** [PMID:23629849](#)

**Keywords:** algorithm, matlab, magnetic resonance, mri

**Availability:** Free, Available for download, Freely available

**Resource Name:** Multicomponent T2 estimation with stimulated echo correction

**Resource ID:** SCR\_002446

**Alternate IDs:** nlx\_155820

**License:** GNU General Public License

**Record Creation Time:** 20220129T080213+0000

**Record Last Update:** 20260725T190527+0000

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## Ratings and Alerts

No rating or validation information has been found for Multicomponent T2 estimation with stimulated echo correction.

No alerts have been found for Multicomponent T2 estimation with stimulated echo correction.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.