

# Resource Summary Report

Generated by [dkNET](#) on Aug 8, 2026

## CUDA-SPHERE-FWD-MEEG

RRID:SCR\_013225

Type: Tool

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### Proper Citation

CUDA-SPHERE-FWD-MEEG (RRID:SCR\_013225)

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### Resource Information

**URL:** <http://sourceforge.net/projects/cudasphere/>

**Proper Citation:** CUDA-SPHERE-FWD-MEEG (RRID:SCR\_013225)

**Description:** A CUDA C based toolkit which provides a GPU based implementation of the spherical model forward solution for the 306 channel Elekta Neuromag MEG system and the EEG. The 1-Sphere forward solution for the MEG and the 4-Sphere forward solution for the EEG is implemented in CUDA C and an accelerated solution is obtained using the NVIDIA GPU when the solution is calculated for a large number of dipoles (on the order of 15000 and above) and sensor location. Speedup by a factor of 22 and 32 is obtained for the EEG and MEG solution respectively when compared to the fastest CPU implementation available in the public domain. The complete source code and pre-compiled binaries are also made available via an open source license (GPL Version 3). A CUDA enabled NVIDIA graphics card is required to use the software.

**Abbreviations:** CUDA-SPHERE-FWD-MEEG

**Synonyms:** CUDA accelerated spherical model M/EEG, CUDA accelerated spherical model forward solution for EEG/MEG

**Resource Type:** software resource, software toolkit

**Keywords:** eeg, meg, electrocorticography, eeg modeling, forward - inverse, meg modeling, modeling

**Availability:** GNU General Public License v3

**Resource Name:** CUDA-SPHERE-FWD-MEEG

**Resource ID:** SCR\_013225

**Alternate IDs:** nlx\_155725

**Alternate URLs:** [http://www.nitrc.org/projects/cuda\\_sphere\\_fwd](http://www.nitrc.org/projects/cuda_sphere_fwd)

**Record Creation Time:** 20220129T080314+0000

**Record Last Update:** 20260808T190509+0000

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## Ratings and Alerts

No rating or validation information has been found for CUDA-SPHERE-FWD-MEEG.

No alerts have been found for CUDA-SPHERE-FWD-MEEG.

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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.