

Inverse Problems Network Meeting 2

Thursday, 23rd November 2017 - Friday, 24th November 2017

Isaac Newton Institute, Cambridge

Abstract of Talk

NOVEL INVERSION METHODS FOR MAGNETOENCEPHALOGRAPHY(MEG)AND FOR SINGLE PHOTON EMISSION COMPUTERISED TOMOGRAPHY(SPECT)

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Following earlier results of the author where the radial component of the magnetic field was expressed in terms of the "visible" component of the cortical neuronal current, an analogous formula will be presented for the magnetic field itself. Furthermore, a possible approach for determining the visible component of the current from MEG measurements will be discussed.

Comparisons of the implementation of a novel numerical technique for the inversion problem in PET versus the standard techniques of FBP and OSEM were presented in two recent papers in Medical Physics. Analogous comparisons will be presented for SPECT.