

## Prof. Dr. rer. nat. Carsten H. Wolters: Publications

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13. Vorwerk, J., Burger, M., Clerc, M. and Wolters, C.H., Comparison of Boundary Element and Finite Element Approaches to the EEG Forward Problem, *Biomag2012, 18th Int.Conf. on Biomagnetism*, Aug.26-30, Paris, France, (2012). Web
12. Vorwerk, J., Lanfer, B., Grüne, F. and Wolters, C.H., Validation and Application of Realistic Head Modelling to MEG, *Biomag2012, 18th Int.Conf. on Biomagnetism*, Aug.26-30, Paris, France, (2012). Web
11. Wagner, S., Vorwerk, J., Ruthotto, L., Kugel, H., Burger, M., Knösche, T.R., Maess, B. and Wolters, C.H., Sensitivity of EEG leads to volume conductor properties, *Biomag2012, 18th Int.Conf. on Biomagnetism*, Aug.26-30, Paris, France, (2012). Web
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9. Wagner, S., Rampersad, S., Vorwerk, J., Aydin, Ü., Neuling, T., Herrmann, C.S., Stegemann, D. and Wolters, C.H., Volume conduction effects in tDCS using a 1mm geometry-adapted hexahedral finite element head model, *Biomag2012, 18th Int.Conf. on Biomagnetism*, Aug.26-30, Paris, France, (2012). Web
8. Ruthotto, L., Kugel, H., Olesch, J., Fischer, B., Modersitzki, J., Burger, M. and Wolters, C.H., Diffeomorphic Susceptibility Artefact Correction of Diffusion-Weighted Magnetic Resonance Images *Biomag2012, 18th Int.Conf. on Biomagnetism*, Aug.26-30, Paris, France, (2012). Web
7. Pursiainen, S., Lew, S., Hämäläinen, M. and Wolters, C.H., EEG forward simulation through the complete electrode model for a head of a newborn, *Biomag2012, 18th Int.Conf. on Biomagnetism*, Aug.26-30, Paris, France, (2012). Web

6. Bauer, M., Köstler, H., Pursiainen, S. and Wolters, C.H., Special Finite Elements for Dipole Modelling, Biomag2012, 18th Int.Conf. on Biomagnetism, Aug.26-30, Paris, France, (2012). Web
5. Lanfer, B., Paul-Jordanov, I., Scherg, M. and Wolters, C.H., Influence of interior cerebrospinal fluid compartments on EEG source analysis, Biomag2012, 18th Int.Conf. on Biomagnetism, Aug.26-30, Paris, France, (2012). Web
4. Janssen A.M., Rampersad, S.M., Lucka, F., Lew S., Oostendorp, T.F., Wolters C.H. and Stegeman D.F., Modeling transcranial stimulation using a realistic volume conductor model 2. Jahrestagung der Deutschen Gesellschaft für Hirnstimulation in der Psychiatrie, Münster, July 7-8, (2011).
3. S.M. Rampersad, T.F. Oostendorp, A.M. Janssen, C.H. Wolters, D.F. Stegeman, Determining the optimal electrode configuration for transcranial direct current stimulation: a model study. Clin.Neurophysiol., 122:pp. S142-S143, Abstracts of the 14th European Congress of Clinical Neurophysiology and the 4th Int.Conf. on Transcranial Magnetic and Direct Current Stimulation, Rome, June 21-25, Web, (2011).
2. A.M. Janssen, T.F. Oostendorp, S.M. Rampersad, C.H. Wolters, D.F. Stegeman, Volume conductor modeling of the effects of transcranial magnetic stimulation Abstracts of the 14th European Congress on Clinical Neurophysiology and the 4th Int.Conf. on Transcranial Magnetic and Direct Current Stimulation, Rome, June 21-25, Web, (2011). pdf
1. Lew, S., Hämäläinen, M., Wolters, C.H., Silva, D.D., Choe, M.-S., Grant, E. and Okada, Y., Effect of the fontanel on MEG and EEG source analysis using a finite element model of an infant head, Human Brain Mapping, Quebec City, Canada, June 26-30, Web, (2011).

### **Selection of invited talks**

88. Wolters, C.H., New non-invasive multimodal neuroimaging and neurostimulation methods for improved diagnosis and therapy in refractory focal epilepsy, Raunonen, P., Pursiainen, S. & Ilmavirta, J. (organizers), Inverse Days, Tampere University, Finland, Dec.14-16 (2021).  
Web. Invited speakers, Book of abstracts.
- 09/2021 Wolters, C.H., ESI, MSI and combined EMSI in Epileptology: Methodological issues, new methods and clinical results. Including open discussion of methodological issues in source imaging, Wellmer, J. (organizer), Annual Meeting on Imaging and Electrophysiology (AMIE) in Neurology, Neurosurgery and Neuroscience and Summer School on Imaging in Epilepsy (SuSIE), Bochum, Sept.13 (2021).  
Web

87. Wolters, C.H., New non-invasive multimodal neuroimaging and neurostimulation methods for improved diagnosis and therapy in refractory focal epilepsy, Makarov, S. & Nummenmaa, A. (organizers), Brain & Human Body Modeling (BHBM) - Online Local Conference, Martinos Center Boston, USA, Aug. 19-20 (2021).  
Web. Program.
86. Wolters, C.H., EEG and MEG source analysis and transcranial electric stimulation (TES) for improved diagnosis and therapy in focal epilepsy, Maryam Khaleghi-Ghadiri (organizer), Department of Neurosurgery, University Hospital Münster (UKM), Aug.17 (2021)
85. Wolters, C.H., New non-invasive multimodal neuroimaging and neurostimulation methods for improved diagnosis and therapy in refractory focal epilepsy, Pursiainen, Sampsa (organizer), Corona(l) Seminar on the Bioelectromagnetic Signals of the Brain, Tampere, Finland, July 29, 2021.  
Program.
84. Wolters, C.H., New non-invasive neuroimaging and neurostimulation methods for improved diagnosis and therapy in refractory focal epilepsy, Uwe Pliquet & Thomas Knösche (organizers), 13th International Conference on Bioelectromagnetism (ICBEM2021), Heiligenstadt, May 26.-28 (2021).  
Web.
83. Wolters, C.H., Forward models for M/EEG, Alberto Sorrentino & Annalisa Pascarella and others (organizers), NonInvasive Mathematics, On-line IN-DAM Workshop, Rome, April 13-16 (2021).  
YouTube, Web.
82. Wolters, C.H., Combined EEG/MEG source analysis and multi-channel stimulation in epileptology, Niels Focke & Stefan Rampp (organizers), Symposium zu EEG und MEG Quellenrekonstruktionen - Anwendungen in der Epileptologie, 65. Kongress der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN2021), Frankfurt, March 10-12 (2021).  
Web,
81. Wolters, C. H., keynote talk: Using combined EEG/MEG source analysis in epilepsy diagnosis and multi-channel transcranial current stimulation for a reduction of seizure frequency and severity, Corona(l) Seminar on the Bioelectromagnetic Signals of the Brain, Tampere, Finland, July 3, 2020.  
Program.
80. Wolters, C.H., New forward and inverse methods for targeted TES, Parra, Lucas (organizer), NYC Neuromodulation 2020 Online Conference, New

York City, USA, April 20-22 (2020).  
Session 21, Program.

79. Wolters, C.H., Electrical Field Modelling, Antal, Andrea (organizer), 17th Practical Course in "Transcranial magnetic and electrical stimulation" within the framework of the training program of the German Neuroscience Society (NWG), University of Göttingen, Göttingen, Germany, Feb.11-13 (2020).  
Program, Web,
78. Wolters, C.H., Keynote speaker at the 19th IEEE International Conference on Bioinformatics and Bioengineering (BIBE2019), Athens, Greece, October 28-30, 2019.  
Keynote speakers, BIBE2019
77. Wolters, C.H., Complementarity of EEG and MEG and How to Exploit It in Source Analysis, SuSIE - Summer School on Imaging in Epilepsy, Epilepsy Surgery and Epilepsy Research, Bochum, Aug.25 (2019).  
Web
76. Wolters, C.H., Reconstruction and manipulation of neuronal networks in the human brain, International summer school of SFB1261, Kiel University, Aug.19-21 (2019).  
Web, Flyer.
75. Wolters, C.H., Reconstruction and manipulation of neuronal networks in the human brain, Department of Applied Physics, University of Eastern Finland, Finland, Aug.1 (2019). Organizers: Pasi Karjalainen, Petro Julkunen.
74. Wolters, C.H., Electrical Field Modelling, Antal, Andrea (organizer), 16th Practical Course in "Transcranial magnetic and electrical stimulation" within the framework of the training program of the German Neuroscience Society (NWG), University of Göttingen, Göttingen, Germany, Feb.12-14 (2019).  
Web1, Web2
73. Wolters, C.H., Pharyngeale Elektro-Stimulation im Labor, Neujahrsempfang des UKM und der Medizinischen Fakultät der Universität Münster, Kollaborationsbeitrag zum Hauptvortrag von Rainer Dziewas (Paper-of-the-year der Med.Fak. 2018) Münster, 24.Jan. (2019).  
Westf.Nachrichten.
72. Wolters, C.H., Talks about  
"Overview: Modeling the human head-the forward problem",  
"Forward problem: The finite element method.",  
"Demo: Accurate Forward and Inverse Modeling with SIMBIO and DUNEuro",  
"Beamformer methods",  
"Studying and researching in Germany-opportunities and funding for foreign students",

”German history in the european context”,  
8th International Summer School in Biomedical Engineering, Oct.1-12, 2018,  
Chengdu, China.  
Web, Schedule1, Schedule2.

71. Wolters, C.H., ”Functional imaging of FCDs and non-lesional focal epilepsies”, 1st Münster Symposium on Seizures and Epilepsy, Sept.27-28, 2018, Münster, Germany.  
Web1, Web2.
70. Wolters, C.H., ”New methods for combined EEG/MEG source analysis and a connectivity study in a multi-focal epilepsy patient”, 21th Int.Conf.on Biomagnetism (Biomag2018), Aug.26-30, 2018, Philadelphia, USA.  
Web.
69. Wolters, C.H., Impulse lecture about ”Reconstruction and manipulation of neuronal networks in the human brain”, STIPED General Assembly Meeting, Coimbra/Portugal, April 15-18, 2018.  
Web
68. Wolters, C.H., Reconstruction and manipulation of neuronal networks in the human brain, Pursiainen, Sampsa (organizer), ”Tampere Easter Workshop on Biomedical Imaging and Bioelectromagnetism”, Tampere University of Technology, Tampere, Finland, March 27 (2018).  
Web
67. Wolters, C.H., Electrical Field Modelling, Antal, Andrea (organizer), 15th Practical Course in ”Transcranial magnetic and electrical stimulation” within the framework of the training program of the German Neuroscience Society (NWG), University of Göttingen, Göttingen, Germany, Feb.19 (2018).  
Web
66. Wolters, C.H., Mathematische Methoden in der Hirnforschung F. Käpnick, V.Körkel (hosts), Im Rahmen von ”Mathe für kleine Asse: Fachexkursion für die Projektgruppen Klasse 6-8”, Institut für Didaktik der Mathematik und Informatik, Uni Münster, 7.Feb (2018).  
Kooperation mit Mathe-Didaktik
65. Wolters, C.H., EEG und MEG in der Epilepsie-Diagnose, Kellinghaus, C. (organizer), Symposium ”7.Osnabrücker EEG-Tag”, Osnabrück, Germany, Nov.11 (2017).  
Program Web
64. Wolters, C.H., Effektive Konnektivitätsanalyse kombinierter epileptischer MEG/EEG Ereignisse in multifokalem Netzwerk, Beniczky, S. & Stefan, H. (organizers), Symposium ”Forschungsansätze und klinische Anwendungen zur Verbesserung der Diagnostik und Therapiesteuerung”, Jahrestagung

der Deutschen und Österreichischen Gesellschaften für Epileptologie und der Schweizerischen Epilepsie-Liga (DGfE2017), Wien, Austria, May 3-6 (2017).

Program Web

63. Wellmer, J., Kowoll, A., Machado Lemos Rodrigues, M., von Lehe, M., Parpaley, Y., Hans, V., Wolters, C.H., Kugel, H., Optimierung der Darstellung fokaler kortikaler Dysplasien durch 3 Tesla ZOOMit-MRT, Edda Haberlandt (organizer), Symposium "Freie Vorträge I - Funktionelle Bildgebung / Klinische Neurophysiologie und EEG", Jahrestagung der Deutschen und Österreichischen Gesellschaften für Epileptologie und der Schweizerischen Epilepsie-Liga (DGfE2017), Wien, Austria, May 3-6 (2017).  
Program Web
62. Wolters, C.H., Neue Methoden zur Elektrodenoptimierung bei hochaufgelöster transkranieller Stromstimulation (hd-tDCS), Moliadze, V. & Wolters, C.H. (organizers), Symposium "Besonderheiten transkranieller Hirnstimulation bei Kindern und Jugendlichen", Deutsche Gesellschaft für Klinische Neurophysiologie (DGKN2017), Leipzig, Germany, April 27-29 (2017).  
Program Web
61. Wolters, C.H., Electrical Field Modelling, Antal, Andrea (organizer), 14th Practical Course in "Transcranial magnetic and electrical stimulation" within the framework of the training program of the German Neuroscience Society (NWG), University of Göttingen, Göttingen, Germany, Feb.21 (2017).  
Web
60. Wolters, C.H., Combined EEG/MEG/MRI analysis for improving presurgical epilepsy diagnosis and new methods for forward and inverse problem in source analysis, Kaipio, Jari (organizer), University of Auckland, Auckland, New Zealand, Oct.12 (2016).
59. Wolters, C.H., Reconstructing and manipulating neuronal networks in the human brain, Kaipio, Jari (organizer), Seminar on Applied Mathematics, University of Auckland, Auckland, New Zealand, Oct.11 (2016).
58. Wolters, C.H., New methods for electrode optimization in high-definition transcranial current stimulation, W. Paulus & A. Antal (organizers), 6th International Conference on Transcranial Brain Stimulation 2016, Göttingen, Germany, Sept.7-10 (2016).  
Web
57. Wolters, C.H., State of the Art Combined EEG/MEG Source Analysis for Successful Presurgical Epilepsy Diagnosis, In symposium "MS84 – State of the Art Computational Methodologies for Mathematical Models of Human Brain Electrophysiology, Hemodynamics and Metabolism - Part I of

II", L.G. Giorda & D. Calvetti & E. Somersalo (organizers), SIAM Life Sciences Conference, Boston, USA, July 14 (2016).

Web1 Web2 Web3

56. Wolters, C.H., Combining EEG, MEG and MRI in presurgical epilepsy diagnosis, F. Wallois (host), GRAMFC INSERM U1105, Amiens, France, June 23 (2016).  
Web
55. Wolters, C.H., A new strategy for connectivity analysis in multifocal epileptic network using combined EEG/MEG source analysis, multimodal MRI and thermoablation as surgical procedure, 60. Jahrestagung der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN2016), Düsseldorf, Germany, March 16-19 (2016).  
Web
54. Wolters, C.H., Konnektivitätsanalyse in multifokalem epileptischem Netzwerk mit kombinierter EEG/MEG Analyse und zoomed MRT zur Thermoablation, Stefan H.& Brandl U. (symposium chairs): Quellenlokalisierung und Netzwerkanalyse zur Therapieoptimierung, 53. Jahrestagung der Deutschen Gesellschaft für Epileptologie e.V. (DGfE2016), Jena, Germany, March 2-5 (2016).  
Web
53. Wolters, C.H., Forward and Inverse Problems in EEG/MEG, S. Makeig & R. McIntosh (hosts), Brain Connectivity Workshop 2015, UC San Diego, La Jolla, California, USA, June 10-12 (2015).  
Web
52. Wolters, C.H., Mathematische Methoden in der Hirnforschung F. Käpnick, V.Körkel (hosts), Im Rahmen von "Mathe für kleine Asse: Fachexkursion für die Projektgruppen Klasse 6-8", Institut für Didaktik der Mathematik und Informatik, Uni Münster, Jan.28 (2015).  
Ankuendigung Kooperation Mathe-Didaktik
51. Wolters, C.H., Modern numerical mathematics for source analysis from combined EEG and MEG data with applications in presurgical epilepsy diagnosis, Informatik Kolloquium, Christian-Albrechts-Universität zu Kiel, S.Boerm (host), Kiel, Jan.16 (2015), Web.
50. Wolters, C.H., Zur Komplementarität von EEG und MEG - Eine Einführung in die Quellenlokalisierung T. Polster (host), Epilepsiezentrum Bethel, Bielefeld, Dec.15 (2014)  
Web

49. Wolters, C.H., Combined EEG/MEG source analysis and specific aspects for ChildBrain research, Kick-off meeting for the EU-ETN project ChildBrain, Jyväskylä, Finland, P.Leppänen (host), Nov.7 (2014),
48. Wolters, C.H., Forward modeling techniques for MEG, In (Brookes, Hämäläinen, Bardouille, org.) Satellite symposium "Zero to Hero": An overview of MEG data acquisition, analysis and interpretation", Biomag2014, 19th Int.Conf. on Biomagnetism, Aug.24-28, Halifax, Canada, (2014). Web
47. Wolters, C.H., Combining EEG, MEG and MRI for the localization of epileptic activity in presurgical epilepsy diagnosis, Workshop "EEG in Kombination mit MEG oder fMRT - nützliche Innovationen für die klinische Anwendung?" 52.Jahrestagung der Deutschen Gesellschaft für Epileptologie, Bonn, May 14-17, (2014). Web.
46. Wolters, C.H., 6th International Summer School in Biomedical Engineering - Multimodal integration of brain measurements in research and clinical practice, September 23rd - October 6th, 2013 in Havana, Cuba. Web.
45. Wolters, C.H., Influence of volume conduction on EEG and MEG source analysis and brain stimulation, First Int.Conf on Basic and Clinical multimodal Imaging (BaCI), Geneva, Switzerland (2013). Web,
44. Wolters,C.H., Mathematische Methoden in der Hirnforschung F. Käpnick, V.Körkel (hosts), Im Rahmen von "Mathe für kleine Asse: Fachvortrag für die Projektgruppen Klassen 5-8", Institut für Didaktik der Mathematik und Informatik, Uni Münster, June 12 (2013).  
Web Web
43. Wolters,C.H., Elektro- und Magneto-Enzephalographie Quellenanalyse zur prächirurgischen Epilepsiediagnose, Molekulare Biologie, Westfälische Hochschule, Recklinghausen, Heinrich Brinck (host), Recklinghausen, Dec.12 (2012).  
Web
42. Wolters,C.H., Modern techniques for EEG/MEG/MRI multimodal integration and brain stimulation Tampere University of Technology, Department of Mathematics, S. Pursiainen (host), Tampere, Finland, March 9 (2012).
41. Wolters,C.H., New methods for a multimodal integration in neuroimaging, First international workshop on segregation and integration in music and language (SIMAL), Web Eberhard Karls Universität Tübingen, R. Dragonova (host), Tübingen, Feb.23-24 (2012).
40. Wolters,C.H., Kombinierte EEG/MEG/MRT Quellenanalyse: Motivation und Methodik, Treffen des Münsteraner Arbeitskreises zu den Epilepsien, G. Kurlmann and H. Stefan (hosts), Münster, Jan.20 (2012).



39. Wolters,C.H., Insights to transcranial direct current stimulation and the relation to source analysis using Helmholtz' reciprocity, Carl von Ossietzky Universität Oldenburg, Institut für Psychologie, Abteilung Allgemeine Psychologie, C. Herrmann (host), Oldenburg, Dec.6 (2011).
38. Wolters,C.H., Combined EEG/MEG source analysis of epileptiform activity using new current density approaches in realistic head models, Autumn School, Eberhard Karls Universität Tübingen, H. Preissl (host), Tübingen, Oct.5-6 (2011).
37. Wolters,C.H., EEG and MEG source analysis of epileptiform activity, Institute colloquium, Fachbereich Psychologie, Universität Konstanz, S.Dalal (host), Konstanz, June 20 (2011).
36. Wolters,C.H., EEG and MEG source analysis of epileptiform activity, Epilepsiezentrum im Neurozentrum, Universitätsklinikum Freiburg, Tonio Ball (host), Freiburg, June 21 (2011).
35. Wolters,C.H., About the complementarity of EEG and MEG, 55.Jahrestagung der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung, DGKN, Münster, Germany, March 16-19. Web, (2011).
34. Wolters,C.H., Combined EEG/MEG source analysis using calibrated finite element head models, Proc. of the 44th Annual Meeting, DGBMT, Rostock-Warnemünde, Germany, Oct.5-8. Web, (2010).
33. Wolters,C.H., EEG and MEG source analysis of epileptiform activity using high resolution finite element head modeling, Informatik Kolloquium, Christian-Albrechts-Universität zu Kiel, S.Boerm (host), Kiel, June 18 (2010), Web.
32. Wolters,C.H., EEG and MEG source analysis using high resolution finite element head modeling, Guest Lecture at the Aalto University, Department of Biomedical Eng. and Computational Science, M. Stenroos (host), Helsinki, Finland, April 8 (2010).
31. Wolters, C.H., SimBio: A generic environment for bio-numerical simulations, Satellite Symposium "Analysis toolboxes for MEG data", Biomag2010, 17th Int.Conf.on Biomagnetism, March 28-April 1, 2010, Dubrovnik, Croatia. Program
30. Wolters,C.H., Correction and registration methods in multimodal MRI applications, 5th Int. Summer School in Biomedical Engineering - Multimodal integration of functional brain measurements, Wittenberg, Germany, Aug.18-26. Web, (2010).

29. Wolters,C.H., EEG/MEG source analysis of epileptiform activity using finite element head modeling G. Haase, O. Steinbach (hosts), NAWI Graz workshop, Graz, June 26 (2009).  
Web
28. Wolters,C.H., Bioelektromagnetismus: Wie Mathematik in der Hirnforschung und der medizinischen Diagnose eingesetzt wird. F. Käpnick (host), Im Rahmen von "Mathe für kleine Asse: Enrichmentprojekt zur Förderung mathematisch begabter Kinder der Klassenstufen 3 bis 8", Institut für Didaktik der Mathematik und Informatik, Uni Münster, June 18 (2009).  
Web
27. Wolters,C.H., EEG/MEG source analysis based on realistic FE volume conductor modeling and its application in presurgical epilepsy diagnosis. M. Hämäläinen (host), A.Martinos Center for Biomedical Imaging, Boston, USA, June 1 - 6 (2009).  
Web
26. Wolters,C.H., Combined EEG/MEG source analysis in presurgical epilepsy diagnosis A. Ebner (host), Epilepsiezentrum Bethel, Bielefeld, May 4 (2009)  
Web
25. Wolters,C.H., Combined EEG/MEG source analysis in presurgical epilepsy diagnosis H. Stefan (host), Epilepsiezentrum Erlangen, Erlangen, March 3 (2009)  
Web
24. Wolters,C.H., EEG/MEG source analysis: From basic mathematical concepts to clinical applications. S. Pursiainen (host), Helsinki University of Technology, Finland, December 30 (2008)  
Web
23. Wolters,C.H., Low resolution conductivity estimation for simultaneous EEG/MEG source analysis & Spatio-temporal regularization approaches. 3rd Int. Summerschool in Biomedical Eng. J.Haueisen and T.Knösche (hosts), University of Weimar, September 8, (2008).  
Web
22. Wolters,C.H., Forward modeling techniques in EEG and MEG source analysis 3rd Int. Summerschool in Biomedical Eng. J.Haueisen and T.Knösche (hosts), University of Weimar, September 5, (2008).  
Web
21. Wolters,C.H., EEG/MEG source analysis based on realistic head models and application to presurgical epilepsy diagnosis and evoked responses. B. Fischer (host), University of Lübeck, May 14 (2008)  
Web

20. Wolters,C.H., EEG and MEG source analysis using high resolution finite element head volume conductor modeling T. Oostendorp & D. Stegeman (hosts), University of Nijmegen, The Netherlands, February 25 (2008)  
Web
19. Wolters,C.H., Finite element method based EEG/MEG source analysis. Workshop of ASIM Fachgruppe 1, Foundations and Methods of Modelling and Simulation H.Köstler (host), University Erlangen-Nuremberg, February 18-20, (2008).  
Web
18. Wolters,C.H., Improved EEG/MEG forward modeling using conductivity fitting in realistic finite element volume conductor models. 16th German EEG/EP Mapping Meeting, Schloss Rauschholzhausen, Giessen, Germany, DMM, M.Wagner, W.Skrandies (hosts), Physiologisches Institut, Justus-Liebig-Universität,October 20-21, (2007).  
Giessen, Web
17. Wolters,C.H., A Parallel Algebraic Multigrid with Simultaneous Treatment of Multiple Right-Hand Sides for Lead Field Bases Computation in EEG and MEG Source Reconstruction. ASIM 2005: Numerical simulation in medical engineering M.Kaltenbacher (host), University Erlangen-Nuremberg, Sept.12-15, (2005).
16. Wolters, C.H., Simulation and visualization techniques for FE modeling in EEG/MEG source localization in the human brain. G.Haase (host), Institute for Mathematics and Scientific Computing, Karl-Franzens-University Graz, Graz, Austria, Web, June 2005.
15. Wolters, C.H., Simulation and visualization techniques for FE modeling in EEG/MEG source localization in the human brain. U.Langer (host), Johann Radon Institute for Computational and Applied Mathematics (RICAM), Johannes Kepler University Linz, Linz, Austria, Web, June 2005.
14. Wolters, C.H., Influence of tissue conductivity inhomogeneity and anisotropy on EEG/MEG source localization in the human brain. U.Ruede (host), Informatics 10 (system simulation), Friedrich-Alexander University Erlangen-Nürnberg, Erlangen, Web, April 2005.
13. Wolters, C.H., Techniques for the visualization of return currents and fields in EEG/MEG source localization in the human brain. W.Hackbusch (host), Max-Planck-Institute for Mathematics in the Sciences, Leipzig, Web, April 2005.
12. Wolters, C.H., Influence of Local and Remote White Matter Conductivity Anisotropy for a Thalamic Source on EEG/MEG Field and Return Current Computation *Joint Meeting of 5th Int. Conf. on Bioelectromagnetism and*

*5th Int. Symp. on Noninvasive Functional Source Imaging within the Human Brain and Heart (BEM&NFSI), Minneapolis, USA, Web, May 2005.*

11. Wolters, C.H., The Influence of Volume Conduction Effects on the EEG/MEG Reconstruction of the Sources of the Early Left Anterior Negativity. *26th Annual Int. Conf. IEEE Engineering in Medicine and Biology Society, San Francisco, USA, Web, September 2004.*
10. Wolters, C.H., Efficient Computation of Lead Field Bases for the FEM-based EEG and MEG Inverse Problem. *14th Int. Conf. on Biomagnetism, BIOMAG2004, Boston, USA, Web, August 2004.*
9. Wolters, C.H., Spatio-temporal current density reconstruction for the EEG/MEG inverse problem using high resolution FE modeling. Hohage, T. (host), Institute for Numerical and Applied Mathematics, Georg-August-University Göttingen, Web, December 2003.
8. Wolters, C.H., Influence of tissue conductivity inhomogeneity and anisotropy on EEG/MEG source localization in the human brain. Rinneberg, H. und Koch, H. (hosts), Physikalisch-Technische Bundesanstalt, Fachbereich 8, Berlin, Web, November 2003.
7. Wolters, C.H., Parallel algebraic multigrid with simultaneous treatment of multi-right-hand sides for high resolution FE modeling in EEG/MEG source localization in the human brain. Clemens, M. and Weiland, T. (hosts), Technische Universität Darmstadt, Institut für Theorie Elektromagnetischer Felder, Web, November 2003.
6. Wolters, C.H., High resolution FE modelling for EEG/MEG source localization in the human brain. Johnson, C. (host), Scientific Computing and Imaging Institute, University of Utah, Salt Lake City, USA, Web, July 2003.
5. Wolters, C.H., Influence of tissue conductivity inhomogeneity and anisotropy on EEG/MEG source localization in the human brain. *Engl, H.W. (org.): SFB-Conference on "Computational Methods for Inverse Problems", Strobl, Austria, Web, August 2002.*
4. Wolters, C.H., High resolution FE modeling of head tissue conductivity anisotropy by means of multi-modal MR imaging and applications to EEG/MEG source localization in the human brain. U.Langer (host), SFB F013 "Numerical and Symbolic Scientific Computing", Johannes Kepler University Linz, Linz, Austria, Web, November 2000.
3. Wolters, C.H., Fast solver methods for FEM based EEG/MEG source localization in the human brain. R.Schneider (host), Faculty for Mathematics, Technical University of Chemnitz, Chemnitz, Germany, 1999.

2. Wolters, C.H., Regularization methods for EEG/MEG source localization in the human brain. P.Maaß (host), Institute of Mathematics, University of Potsdam, Potsdam, Germany, 1999.
1. Wolters, C.H., Influence of head tissue conductivities on EEG/MEG source localization. *European workshop on MEG (EUWOMEG)*, Erlangen, Germany, 1999.