

# Publications by Johanna Tamminen

January 13, 2009

## 1 Books

- [1] J. Tamminen. *Fourier- ja Radon-muunnoksista Schwarzin avaruudessa*. University of Helsinki, Helsinki, 1993. MS-thesis.
- [2] J. Tamminen. *MCMC methods for inverse problems*. Geophys. Publ. 48. Finnish Meteorol. Inst., Helsinki, 1999. Licentiate Thesis.
- [3] J. Tamminen. *Adaptive Markov chain Monte Carlo algorithms with geophysical applications*. Finnish Meteorological Institute contributions 47. Finnish Meteorol. Inst., Helsinki, 2004. PhD Thesis.

## 2 Peer reviewed articles

- [4] J.-L. Bertaux, A. Hauchecorne, F. Dalaudier, C. Cot, E. Kyrölä, D. Fussen, J. Tamminen, G. W. Leppelmeier, V. Sofieva, S. Hassinen, O. Fanton d'Andon, G. Barrot, A. Mangin, B. Théodore, M. Guirlet, O. Korablev, P. Snoeij, R. Koopman, and R. Fraisse. First results on GOMOS/Envisat. *Advances in Space Research*, 33:1029–1035, 2004.
- [5] D. Fussen, F. Vanhellemont, C. Bingen, B. Kyrölä, J. Tamminen, V. Sofieva, S. Hassinen, A. Seppälä, P. T. Verronen, J. L. Bertaux, A. Hauchecorne, F. Dalaudier, O. F. D'Andon, G. Barrot, A. Mangin, B. Theodore, M. Guirlet, J. B. Renard, R. Fraisse, P. Snoeij, R. Koopman, and L. Saavedra. Autoregressive smoothing of GOMOS transmittances. *Advances in Space Research*, 36:899–905, 2005.
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the star occultation instrument GOMOS. *Geophysical Research Letters*, 31(24):L24110, 2004.

- [8] D. Fussen, F. Vanhellemont, J. Dodion, C. Bingen, N. Matshvili, F. Daerden, D. Fonteyn, Q. Errera, S. Chabrilat, E. Kyrölä, J. Tamminen, V. Sofieva, A. Hauchecorne, F. Dalaudier, J.-L. Bertaux, J.-B. Renard, R. Fraisse, O. F. d’Andon, G. Barrot, M. Guirlet, A. Mangin, T. Fehr, P. Snoeij, and L. Saavedra. A global OClO stratospheric layer discovered in GOMOS stellar occultation measurements. *Geophysical Research Letters*, 33:13815–+, July 2006.
- [9] H. Haario, M. Laine, M. Lehtinen, E. Saksman, and J. Tamminen. MCMC methods for high dimensional inversion in remote sensing (with discussion). *Journal of the Royal Statistical Society B*, 66(Part 3):591–607, 2004.
- [10] H. Haario, E. Saksman, and J. Tamminen. Componentwise adaptation for high dimensional MCMC.
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- [12] H. Haario, E. Saksman, and J. Tamminen. An adaptive Metropolis algorithm. *Bernoulli*, 7(2):223–242, 2001.
- [13] S. Hassinen, J. Tamminen, A. Tanskanen, T. Koskela, J. M. Karhu, K. Lakkala, A. Mälkki, G. Leppelmeier, P. Veeffkind, N. Krotkov, and O. Aulamo. Description and Validation of the OMI Very Fast Delivery Products. 113(D16S35), 2008. *Journal of Geophysical Research*.
- [14] A. Hauchecorne, J.-L. Bertaux, F. Dalaudier, C. Cot, J.-C. Lebrun, S. Bekki, E. Marchand, M. and Kyrölä, J. Tamminen, V. Sofieva, D. Fussen, F. Vanhellemont, O. Fanton d’Andon, G.; Barrot, B. Mangin, A. and Thodore, M. Guirlet, P. Snoeij, R. Koopman, L. Saavedra de Miguel, R. Fraisse, and J.-B. Renard. First simultaneous global measurements of night-time stratospheric NO<sub>2</sub> and NO<sub>3</sub> observed by GOMOS/ENVISAT in 2003. *Journal of Geophysical Research*, 110(D18), 2005.
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### 3 Conference publications

- [38] H. Auvinen, L. Oikarinen, E. Kyrölä, J. Tamminen, and G. W. Leppelmeier. Inversion algorithms for osiris and gomos bright-limb background term. In *ESAMS99, European Symposium on Atmospheric Measurements from Space*, volume WPP-161, pages 271–276. ESA, 1999.
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