

## Publikationen und Konferenzbeiträge

### Vorträge

*METAS – The National Metrology Institute*

CECIP General Assembly 2014, Interlaken (CH), 9. Mai 2014

*Nouvelle réglementation sur les compteurs d'eau froide*

AquaPro, Bulle (CH), 5 février 2014

*Wie fix sind Eichfristen?*

Fernwärme Schweiz, Bern (CH), 20 März 2013

*Introduction à la directive européenne sur les instruments de mesure*

*Ateliers MID pour les pays du Maghreb, Alger, 9 – 13 septembre 2013*

*Eichwesen und Smart Meter*

Chur, 7. Juni 2012

*Metrological Standards*

Flow- & Gas Seminar FlowTec, Reinach (CH), 2012, 2013, 2014

*Verhindert das Eichwesen Smart Meters?*

Smart Metering Day 2011, VSE, Baden (CH), 26. Oktober 2011

*Vous avez une seconde?*

Konferenz an der *Nuit de la Science*, Genève, 2008

*Das Internationale Einheitensystem SI*

Ausbildungskurse für kantonale Eichmeister, 2006, 2008, 2011, 2014

*Zeit- und Frequenzmetrologie*

Weiterbildung für Realschullehrkräfte des Kantons Bern, regelmässige Kurse 2004 bis 2008.

*Zeit- und Frequenzaktivitäten am METAS*

PTB-Kolloquium, Braunschweig (D), 2003

*FOCS: Das neue Primärfrequenznormal für die Schweiz*

METAS-Fachseminar, Wabern 2002

*First Results on a Transatlantic Time and Frequency Transfer by GPS Carrier Phase*

Precise Time and Time Interval Meeting, Reston, (USA), 1998

*First results with a cold cesium continuous fountain resonator*

Conference on Precise Electromagnetic Measurements (CPEM), Sydney (Aus), 2000

### Artikel in Fachzeitschriften

N Sagna, G Dudle, P Thomann

*The capture process in spherical magneto-optical traps: Experiment and 1D magnetic field models*

J Phys-B-At Mol Opt Phys **28**, pp. 3213-3224, 1995

G Dudle, N Sagna, P Berthoud, P Thomann

*Anisotropic magneto-optical trapping of atoms: capture efficiency and induced drift velocities*

J. Phys. B **29**, pp. 4659-4673, 1996

G Dudle, N Sagna, P Thomann, E Aucouturier, P Petit, N Dimarcq

*Generation of a Continuous Beam of Cold Cesium Atoms*

Proceeding of the 5th Symposium on Frequency Standards and Metrology, Woods Hole MA, USA

P Berthoud, A Joyet, G Dudle, N Sagna; P Thomann

*A continuous beam of slow, cold cesium atoms magnetically extracted from a 2D magneto-optical trap*

Europhys Lett **41**, pp. 141-146, 1998

P Berthoud, E Fretel, A Joyet, G Dudle, P Thomann

*Toward a Primary Frequency Standard Based on a Continuous Fountain of Laser-Cooled Cesium Atoms*

IEEE Trans. IM **48**, pp 516 - 519, 1999

- G Dudle, G Mileti, A Joyet, E Fretel, P Berthoud, P Thomann  
*An Alternative Cold Cesium Frequency Standard: The Continuous Fountain*  
IEEE Trans. UFFC **47**, pp. 438 - 442, 2000
- T Schildknecht, G Dudle  
*Time and Frequency Transfer High Precision using GPS Phase Measurements*  
GPS World, Feb 2000, pp. 48 - 52
- A Joyet, G Mileti, G Dudle, P Thomann  
*Theoretical Study of the Dick Effect in a Continuously Operated Ramsey Resonator*  
IEEE Trans. IM **50**, 150 - 156, 2001
- G Dudle, A Joyet, P Berthoud, G Mileti, P Thomann  
*First results with a cold cesium continuous fountain resonator*  
IEEE Trans. IM **50**, 510 - 514, 2001
- A Joyet, G Mileti, P Thomann, G Dudle  
*Continuous Fountain Cs Standard: Stability and Accuracy Issues*  
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- R Dach, T Schildknecht, T Springer, G Dudle, L Prost  
*Continuous Time Transfer Using GPS Carrier Phase*  
IEEE Trans. UFFC **49**, 1480 - 1490, 2002
- R Dach, G Beutler, U Hugentobler, S Schaer, T Schildknecht, T Springer, G Dudle, L Prost  
*Time transfer using GPS carrier phase: error propagation and results*  
Journal of Geodesy **77**, 1 – 14, 2003
- R Dach, T Schildknecht, U Hugentobler, L-G Bernier, G Dudle  
*Continuous Geodetic Time-Transfer Analysis Methods*  
IEEE Trans. UFFC **53**, 1250 – 1259, 2006
- P. Thomann, M Plimmer, G Di Domenico, N Castagna, J Guéna, G Dudle, F Füzesi  
*Continuous beams of cold atoms for space applications*  
Appl. Phys. B **84**, 659 – 662, 2006
- J Guéna, G Dudle, P Thomann  
*An experimental study of intermodulation effects in an atomic fountain frequency standard*  
Eur. Phys. J. Appl. Phys **388**, 183 – 189, 2007
- F. Füzesi, A. Jornod, P. Thomann, M.D. Plimmer, G. Dudle, R. Moser, L. Sache, H. Bleuler  
*An electrostatic glass actuator for ultra-high vacuum: a rotating light trap for continuous beams of laser-cooled atoms*  
Review of Scientific Instruments (2007)