Thomas Cokelaer's Bibliography

- Entry on Research Gate www.researchgate.net/profile/Thomas_Cokelaer
- thomas-cokelaer.info/papers.html
- inSPIRE website
- pubmed

References

1 Peer to peer articles in journals

[1] Stefania Vaga, Marti BernardoFaura, Thomas Cokelaer, Alessio Maiolica, Christopher A Barnes, Ludovic C Gillet, Bjrn Hegemann, Frank van Drogen, Hoda Sharifian, Edda Klipp, Matthias Peter, Julio SaezRodriguez, Ruedi Aebersold

Phosphoproteomic analyses reveal novel crossmodulation mechanisms between two signaling pathways in yeast Molecular Systems Biology (2014) 10: 767

[2] Costello JC et al. *A community effort to assess and improve drug sensitivity prediction algorithms* Nature Biotechnology 2014

[3] Jose A Egea and David Henriques and Thomas Cokelaer and Alejandro F Villaverde and Aidan MacNamara and Diana-Patricia Danciu and Julio R Banga and Julio Saez-Rodriguez. *MEIGO: an open-source software suite based on metaheuristics forglobal optimization in systems biology and bioinformatics* BMC Bioinformatics 2014, **15**:136

[4] Meyer Pablo and Cokelaer Thomas and Chandran Deepak and Kim, Kyung Hyuk and Loh, Po-Ru et al. *Network topology and parameter estimation: from experimental design methods to gene regulatory network kinetics using a community based approach BMC Systems* – Biology vol. 2014 **8** (1) p. 13

[5] Chaouiya et al *SBML qualitative models: a model representation format and infrastructure to foster interactions between qualitative modelling formalisms and tools* BMC Systems Biology 2013, **7**:135

[6] Thomas Cokelaer and Dennis Pultz and Lea M. Harder and Jordi Serra-Musach and Julio Saez-Rodriguez *BioServices: a common Python package to access biological Web Services programmatically* – Bioinformatics **29** (24) 3241-3242 (2013)

[7] Carito Guziolowski1, Santiago Videla, Federica Eduati, Sven Thiele, Thomas Cokelaer, Anne Siegel, Julio Saez-Rodriguez – *Exhaustively characterizing feasible logic models of a signaling network using Answer Set Programming* – Bioinformatics **29** 18 p2320-2326 (2013)

[8] Matthew T Weirauch et al. – *Evaluation of methods for modeling transcription factor sequence specificity.* – Nature biotechnology, **31** 126-134 (2013)

[9] Babak et al. – *Searching for gravitational waves from binary coalescence* – Phys. Rev. D **87**, 024033 (2013) –

[10] Terfve et al. – *CellNOptR : a flexible toolkit to train protein signaling net- works to data using multiple logic formalisms* – BMC System Biology, **6**, 1, 133 (2012)

[11] Boudon, Frédéric and Pradal, Christophe and Cokelaer, Thomas and Prusinkiewicz, Przemyslaw and Godin, Christophe – *L-py: an L-system simulation framework for modeling plant architecture development based on a dynamic language.* – Frontiers in plant science, **3** p76 (2012)

[12] Abbott et al. *Searches for Gravitational Waves from Known Pulsars with Science Run 5 LIGO Data* – The Astrophysical Journal, **713**, 1, p671 (2010)

[13] C. Van Den Broeck, D. A. Brown, T. Cokelaer, I. Harry, G. Jones, B.S. Sathyaprakash, H. Tagoshi, H. Takahashi – *Template Banks to Search for Compact Binaries with Spinning Components in Gravitational Wave Data* – Phys. Rev. D **80**, 024009 (2009)

[14] T. Cokelaer T. and D. Pathak – *Searching for Gravitational-Wave Signals Emitted by Eccentric Compact Binaries Using a non-Eccentric Template Bank: Implications for Ground-Based Detectors* – Class. Quant. Grav. **26**, 045013 (2009)

[15] The LIGO Scientific Collaboration & The Virgo Collaboration – *An Upper Limit on the Stochastic Gravitational-Wave Background of Cosmological Origin* – Nature **460**, 990-994 (2009)

[16] B. P. Abbott *et al.* [LIGO Scientific Collaboration] – *Search for Gravitational Waves from Low Mass Binary Coalescences in the First Year of LIGO's S5 Data* – Phys. Rev. D **79**, 122001 (2009)

[17] B. Abbott *et al.* [LIGO Scientific Collaboration] – *Search of S3 LIGO Data for Gravitational Wave Signals from Spinning Gravitation Hole and Neutron Star Binary Inspirals* – Phys. Rev. D **78**, 042002 (2008)

[18] B. Abbott *et al.* [**Corresponding author** for the LIGO Scientific Collaboration] – *Search for Gravitational Waves from Binary Inspirals in S3 and S4 LIGO data* – Phys. Rev. D **77**, 062002 (2008)

[19] T. Cokelaer – *Gravitational Waves from Inspiralling Compact Binaries: Hexagonal Template Placement and its Efficiency in Detecting Physical Signals* – Phys. Rev. D. **76** 102004 (2007)

[20] T. Cokelaer – *A Template Bank to Search for Gravitational Waves from Inspiralling Compact Binaries: II. Phenomenological Model* – Class. Quant. Grav. **24** 6227-6242 ,(2007)

[21] S. Babak, R. Balasubramanian, D. Churches, T. Cokelaer and B. S. Sathyaprakash – *A Template Bank to search for Gravitational Waves from Inspiralling Compact Binaries. I: Physical models* – Class. Quant. Grav. **23**, 5477 (2006)

[22] B. Abbott *et al.* [LIGO Scientific Collaboration] – *Search for Gravitational Waves from Binary Gravitation Hole Inspirals in LIGO Data* – Phys. Rev. D **73** (2006) 062001

[23] R. Balasubramanian, S. Babak, D. Churches and T. Cokelaer – *GEO600 Online Detector Characterization System,* – Class. Quant. Grav. **22**, 4973 (2005)

[24] B. Abbott *et al.* [LIGO Scientific Collaboration] – *Search for Gravitational Waves from Primordial Black Hole Binary Coalescences in the Galactic Halo* – Phys. Rev. D **72**, 082002 (2005)

[25] B. Abbott *et al.* [LIGO Scientific Collaboration] – *Search for Gravitational Waves from galactic and extra-galactic Binary neutron stars* – Phys. Rev. D **72**, 082001 (2005)

[26] F. Acernese *et al.* [Virgo Collaboration] – *The commissioning of the central interferometer of the Virgo Gravitational Wave detector* – Astropart. Phys. **21**, 1 (2004).

2 Proceedings

[27] Cokelaer T and Saez-Rodriguez J. *Using Python to Dive into Signalling Data with CellNOpt and BioServices* Proceedings of the 7th European Conference on Python in Science (EuroSciPy 2014). http://arxiv.org/abs/1412.6386

[28] Han, Liqi and Costes, Evelyne and Boudon, Frédéric and Cokelaer, Thomas and Pradal, Christophe and Da Silva, David and Faivre, Robert – *Investigating the Influence of Geometrical Traits on Light Interception Efficiency of Apple Trees: a Modelling Study with MAppleT* – International Symposium on Plant Growth Modeling, Simulation, Visualization and Applications, IEEE, pages 152-159, (2012)

[29] Chopard J., Pradal C., Barbeau D., Cokelaer T., Godin C. – *Scientific workflow for reusing plant/FSPM models* – MODSIM2011. 19th International Congress on Modelling and Simulation (2011) 968-974

[30] Pradal Christophe, Daniel Barbeau, Cokelaer Thomas, Eric Moscardi – *VisuAlea, Towards a Scientific Modelling Environment using Visual Programming* – EuroSciPy 2010, 2010

[31] T. Cokelaer, – *Parameter Estimation of Inspiralling Compact Binaries in Ground-Based Detectors: Comparison Between Monte Carlo Simulations and the Fisher Information Matrix* – Class. Quant. Grav. **25**, 184007 (2008).

[32] T. Cokelaer [LIGO Scientific Collaboration] – *Report on the Search for Binary Gravitation Holes Inspiral in S3 LIGO data* – Prepared for 6th Edoardo Amaldi Conference on Gravitational Waves (Amaldi6), Kise Nago, Okinawa, Japan, 20-24 Jun 2005 – J. Phys. Conf. Ser. **32**, 29 (2006).

[33] H. Luck *et al.* – *Status of the GEO600 Detector* – 6th Edoardo Amaldi Conference on Gravitational Waves (Amaldi6), Kise Nago, Okinawa, Japan, 20-24 Jun 2005. –Class. Quant. Grav. **23**, S71 (2006).

[34] B. Abbott *et al.* [LIGO Scientific Collaboration] – *Search for Gravitational Waves from Binary Gravitation hole Inspirals in LIGO data* – Phys. Rev. D **73**, 062001 (2006)

[35] T. Cokelaer, S. Babak and B. S. Sathyaprakash – *Efficiency Of Template Banks For Binary Black-Hole Detection* – Class. Quant. Grav. **21**, S1635 (2004).

[36] J. R. Smith *et al.* – *Commissioning, Characterization And Operation Of The Dual-Recycled Geo 600* – Class. Quant. Grav. **21**, S1737 (2004).

[37] F. Acernese *et al.* – *Search for Inspiralling Binary events in the VIRGO engineering run data,* – Class. Quant. Grav. **21**, S709 (2004).

[38] D. A. Brown, Babak S., Brady R. P., Christensen N., Cokelaer T., Creighton J., Fairhurst S., Gonzalez G., Messaritaki E., Sathyaprakash B.S., Shawhan P., Zotov N. – *Searching for Gravitational Waves from Binary Inspirals with LIGO* – Class. Quant. Grav. **21**, S1625 (2004)

[39] F. Acernese *et al.* [VIRGO Collaboration] – *Data Analysis Methods For Non-Gaussian, Nonstationary And Nonlinear Features And Their Application To Virgo* – 7th Gravitational Wave Data Analysis Workshop (GWDAW 2002), Kyoto, Japan, 17-19 Dec 2002. Class. Quant. Grav. **20**, S915 (2003).

[40] F. Acernese *et al.* [VIRGO Collaboration] – *Status Of Virgo* – 4th Edoardo Amaldi Conference on Gravitational Waves (Amaldi 4) , Perth, Australia, 8-13 Jul 2001 – Class. Quant. Grav. **20**, S609 (2003).

3 Working groups

[41] Working group around Python at EBI: Pynxton

[42] Dialogue for Reverse Engineering Assessments and Methods 2011-2014, http://www.the-dream-project.org/

[43] Data Analysis Software Working Group 2003-2008 https://www.lsc-group.phys.uwm.edu/daswg/

[44] LIGO Scientific Collaboration 2003-2008 https://www.ligo.org

[45] Compact Binary Coalescences, LIGO Scientific Collaboration 2003-2008 https://www.lsc-group.phys.uwm.edu/ligovirgo/cbc/public/projects.html

4 Software

Up-to-date list of active software can be found on github.

[46] Perform spectral analysis in Python with Spectrum: https://pypi.python.org/pypi/bioservices

[47] Access to Life Science Web Services programmatically in Python with BioServices: https://pypi.python.org/pypi/bioservices

[48] CellNOptR: http://www.cellnopt.org/

[49] OpenAlea, Software Environment for Plant Modeling http://openalea.gforge.inria.fr/dokuwiki/doku.php

[50] LIGO Scientific Collaboration Algorithm Library https://www.lsc-group.phys.uwm.edu/daswg/projects/lal.html

[51] LIGO Scientific Collaboration Pipeline Applications based on LAL https://www.lsc-group.phys.uwm.edu/daswg/projects/lalapps.html

[52] Python LIGO Algorithm Library https://www.lsc-group.phys.uwm.edu/daswg/projects/pylal.html

5 Conferences

[53] EuroSciPy conference , Cambridge 2014, poster session

[54] RECOMB 2013 (Conference on Regulatory and Systems Genomics, with DREAM Challenges), Toronto 2013, poster session and part of the organisation.

[55] Open Source Software for systems, pathwats, interactions and networks, Cambridge 2012 *Open source software for pahtway modelling and drug discovery*

[56] T. Cokelaer, C. Pradal, C. Fournier – *Plants Modelling with Python Components with OpenAlea* – EuroScipy 2009, Leipzig, Germany, 26-27 Juillet 2009

[57] C. Fournier, C. Pradal, M. Chelle, f. Boudon, G. Louarn, C. Robert. D. Combes, T. Cokelaer, J. Bertheloot, Kai Ma , S. Saint-Jean. A. Verden, A. Escobar-Gutierrez, B. Andrieu and C. Godin – *Sharing efforts for modelling plant systems: from publications to reusable software components* – Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology", **153**,2, Supplement 1",S222 - S222,2009 Annual Main Meeting of the Society of Experimental Biology, 28th June - 1st July, Glasgow, UK",

[58] Cokelaer T. – *Parameter Estimation of Inspiralling Compact Binaries: Exhaustive Comparison Between Theory and Simulations and Implications for Searches in Ground Based Detectors* – Gravitational Wave Data Analysis Workshop 12, Boston, USA, 11 Décembre 2007

[59] Cokelaer, T. for the LIGO Scientific Collaboration – *Efficiencies of a Hexagonal Template Bank Placement to Search for Gravitational Waves from Inspiralling Compact Binaries in Ground Based Detectors* – 7th Edoardo Amaldi Conference on Gravitational Waves, **Poster session** Sydney, Australie, 2007 Juiller 8-15

[60] Cokelaer T. for the LIGO Scientific Collaboration – *Search for Gravitational Waves from Compact Binary systems in the third and fourth LIGO science runs* – American Physics Society Meeting, Jacksonville, Floride, USA 2007 April 14-17

[61] Cokelaer T. for the LIGO Scientific Collaboration – *Search for Gravitational Waves from Compact Binary systems in the third and fourth LIGO science runs*, XLIId Recontres de Moriond – Gravitational Waves and Experimental Gravity , La Thuile, Italie, 11-18 Mars 2007

[62] Cokelaer T. for the LIGO Scientific Collaboration – *Search for Compact Binary systems in LIGO data*, Gravitational Wave Data Analysis Workshop 11, Potsdam, Allemagne, 18-21 Décembre 2006

[63] Cokelaer T. – *Efficiency of Template Banks for Black Hole-Black Hole detection*, Gravitational Wave Data Analysis Workshop 8 – Milwaukee WS, USA – 17-20 Decembre 2003

[64] Cokelaer T. – *Modelling and detection of Gravitational Waves from BH-BH coalescences* – Gravitational Wave Data Analysis Workshop 6, Trento, Italie – 13-15 Decembre 2001

[65] Cokelaer T. – *Filtrage adapté aux coalescences de trous noirs*, Les journées du GREX, Groupe de Recherche en Gravitation et Expérience dans l'Espace, Grasse, France, 9-11 octobre 2001.

6 Talks in workshops

[66] Cokelaer T. – *Searching for Inspiralling Compact Binaries: Template Bank placement in LIGO* – Cardiff university Group meeting – Cardiff, UK – 2008

[67] Cokelaer T. – *Search for Compact Binaries in S5, 2nd Year Analysis: Status of the Current Analysis and Future Plans.*, LSC-Virgo plenary session, Caltech, Pasadena, USA 17 Mars 2008.

[68] Cokelaer T. on behalf of Van Den Broeck C. – *The Science Case of a Third Generation Interferometer* – ILIAS – Gravitaional Wave Analysis network – London, Imperial college – 26 Octobre 2006

[69] Cokelaer T. – *S3 and S4 Binary Black Hole report* – LSC Meeting – Cambridge MA USA – 3-4 Juin 2006

[70] Cokelaer T. for the LIGO Scientific Collaboration – *Status and Overview of the S3 and S4 Search for Binary Black Holes* – LSC Meeting – Louisiana State University, USA – 14-17 Aout 2006

[71] Cokelaer T. – *Search for Gravitational Waves emitted by Compact Binary Waveforms* – ILIAS project– GWA network, Paris – Janvier 2006

[72] Cokelaer T. – *The Search for Gravitational Waves* – Cardiff university Group meeting – Cardiff, UK – 2006

[73] Babak S., R. Balasubramanian, D. Churches, B.S. Sathyaprakash, T. Cokelaer for the LIGO Scientific Collaboration – *GEO++/GEO Online Data Characterisation* – LSC Meeting, Livingstone, Lousiana, USA – 15-18 Mars 2004

[74] Cokelaer T. – *Template Bank for Binary Detection* – LSC Meeting – Hanford Washington 2004 – 10,13 Novembre 2004

[75] Cokelaer T. – *The GEO Line Detection Monitor* – LSC Meeting – Hannover, Allemagne – 18-21 Aout 2004

[76] Cokelaer T. – *PSD monitor and Line Detection monitor in GEOPP* – GEO Meeting – Palma de Mallorca, Espagne – 5-7 Avril 2004

[77] Cokelaer T. – *BCV Templates for Black Hole Binary searches* – GEO Meeting – Palma de Mallorca, Espagne – 5-7 Avril 2004

[78] Cokelaer T. – *Template Bank for Binary detection* – LSC meeting – Hanford, WA, USA – 10-13 Novembre 2003

[79] Cokelaer T., *The GEO Line Detection Monitor* – LSC meeting – Hannover, Allemagne – 2003

[80] Cokelaer T., *The Hough transform (line detection)* – Cardiff University Group Meeting – Cardiff, UK – 2003

[81] Cokelaer T. – *Exact number of templats to cover Black Hole-Black Hole coalescences with EOB method* – Virgo Data Analysis Meeting – Rome, Italie – September 2002

[82] Chassande-Mottin (E.). *non-Stationarity, non-Gaussianity & non-Linearity in Erun1 Data.* Virgo meeting about E1 data analysis – Cascina, Italy – 2002. (with T. Cokelaer, G. Guidi and H. Vocca).

[83] Cokelaer T. – *Nice activities on Coalescing Binaries* – Data Analysis Meeting – Cascina/Pisa Italie – 15 Juillet 2002

[84] Cokelaer T. – *Detection of Gravitational Waves emitted by Black Hole-Black Hole coalescences* – Time Frequency meeting – Observatoire de Nice-Cote d'Azur, Nice, France – 13 Juin 2002

[85] Cokelaer T. – *Modelling and detection of Gravitational Waves from Black Hole-Black Hole coalescences* – Coalescing Binaries Meeting – Cascina/Pisa Italie – 6 Novembre 2001

[86] Cokelaer T. – *Investigation on ERun 0: Line detection* – VIRGO Erun 0 Meeting – Cascina/Pisa Italie – 6 Novembre 2001

[87] Cokelaer T. – *Investigation on ERun 0: Stationarities* – VIRGO Erun 0 Meeting – Cascina/Pisa Italie – 6 Novembre 2001

[88] Cokelaer T. – *Results on the detection of Binary Gravitation-holes in a one body approach* – VIRGO Data Analysis Meeting – Cascina/Pisa Italie – 21 Juin 2001

[89] Cokelaer T. – *Nice activities on Coalescing Binaries* – Data Analysis Meeting – Cascina/Pisa Italie – 15 Juillet 2002

[90] Cokelaer T. for ILGA group – *Tools for noise analysis* – VIRGO Annual Review 2001 – Pisa Italie – 2001

[91] Cokelaer T. – *Detecting burst with a matching pursuit method* – Meeting on detection of Gravitational Wave bursts – Orsay, Paris – 9 Octobre 2000

[92] Cokelaer T., *Wavelets to detect Gravitational Wave chirp Signals* – GEO Meeting – Cardiff University, UK – 18 Juillet 2000

7 Informal talks

[93] Cokelaer T., *Searching for Inspiralling Compact Binaries: Template Bank placement in LIGO* – Cardiff group Meeting, Cardiff, U.K. – Janvier 2008

[94] Cokelaer T. – *Participation au face to face LIGO Inspiral Group* – Hanford Lousiana USA– 19-20 Novembre 2005

[95] Cokelaer T. – *Participation au face to face LIGO Inspiral Group* – Hanford Lousiana USA– 14-17 Aout 2005

[96] Cokelaer T. – *Participation au face to face LIGO Inspiral Group* – Hanford Lousiana USA– Mars 2005

[97] Cokelaer T., *Gravitational Wave Data analysis: Matched filtering and Gravitational Wave Binary detection* – Astrolunch, School of Physics and Astronomy, Cardiff University – Nov 2004

[98] Cokelaer T, Jones G. – *Spinning Gravitation holes Binary searchL status and future plans*– Participation at face to face LIGO Inspiral Group – Lousiana USA– 8-9 Novembre 2004

[99] Cokelaer T, Jones G. – *Spinning Gravitation holes Binary searchL status and future plans*– Participation at face to face LIGO Inspiral Group – – June 2004

[100] Cokelaer T – Participation at face to face LIGO Inspiral Group – Hanford, USA –8-9 Novembre 2003

8 Technical reports

[101] T.Cokelaer, F.Eduati, A.MacNamara, S.Schrier, C.Terfve – *Training of boolean logic models of signalling networks using prior knowledge networks and perturbation data.*– http://bioconductor.fhcrc.org/packages/release/bioc/html/CellNOptR.html

[102] Melody K Morris, Thomas Cokelaer – *Training Signalling Pathway Maps to Biochemical Data with Constrained Fuzzy Logic using CNORfuzzy* – http://bioconductor.fhcrc.org/packages/release/bioc/html/CNORfuzzy.html

[103] David Henriques, Thomas Cokelaer – *Training Signalling Pathway Maps to Biochemical Data with Logic-Based Ordinary Differential Equations* – http://bioconductor.fhcrc.org/packages/release/bioc/html/CNORode.html

[104] Chassande-Mottin E., Cokelaer T., Guidi G. and Vinet J.-Y. – *Report of the non-Stationary & non-Gaussian Group* – Rapport technique n VIR-NOT-OCA-1390-194 – Virgo Project – 2002

[105] Chassande-Mottin E., Cokelaer T. and Vocca H. – *Report of the non-Stationary & non- Gaussian Group on E1 data* – Rapport technique n VIR-NOT-OCA-1390-197 – Virgo Project – 2002