

# Thomas Cokelaer's Bibliography

- Entry on Research Gate [www.researchgate.net/profile/Thomas\\_Cokelaer](http://www.researchgate.net/profile/Thomas_Cokelaer)
- [thomas-cokelaer.info/papers.html](http://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 cross-modulation 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 Guziolowski, 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 networks 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 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 extragalactic 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, DBarbeau Daniel, Cokelaer Thomas, Moscardi Eric– *VisuAlea, Towards a Scientific Modelling Environment using Visual Programming* – EuroSciPy 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*, XLIIId 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 – Gravitational 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 templates 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.fhrc.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.fhrc.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.fhrc.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