Curriculum vitae + 10-year track record: Anders Tranberg

CV

Personal information

First name, Surname:	Anders Tranberg		
Date of birth:	14.03.1976	Sex:	Male
Nationality:	Danish		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	N/A		
URL for personal website:	https://www.uis.no/nb/profile/anders-tranberg		

Education

Year	Faculty/department – University/institution – Country
2004	**Doctorate in Theoretical Physics** Department of Theoretical Physics, University of Amsterdam, The Netherlands.
2000	**Master degree in Physics** Niels Bohr Institute, University of Copenhagen, Denmark

Positions - current and previous

Year	Job title – Employer – Country
2013-	**Tenured Professor** in Physics Department of Mathematics and Physics, University of Stavanger, Norway
2010-2012	**Assistant Professor/Carlsberg Fellow** Niels Bohr Institute, University of Copenhagen, Denmark
2009-2010	**Postdoctoral Research Associate** Department of Physics, University of Helsinki, Finland
2007-2009	**Postdoctoral Research Associate** Department of Physics, University of Oulu, Finland
2006-2007	**Postdoctoral Research Associate** DAMTP, Cambridge University, United Kingdom
2004-2006	**Postdoctoral Research Associate** Department of Physics and Astronomy, University of Sussex, United Kingdom

Project management experience

Year	Project owner – Project – Role – Funder
2020-2023	University of Stavanger: **ROMFORSKNING**. Co-Principal Investigator. "Gravitational Wave Signatures from Early Universe Phase transitions". Funded by: Research Council of Norway (NFR)
2016-2019	University of Stavanger: **UiS-ToppForsk**. Principal Investigator. "Strong and Electroweak matter in Extreme conditions".

	Funded by: Universitetsfondet/University of Stavanger.
2014-	University of Stavanger: **HPC Computing grant** NN9275K. Principal Investigator. "Quantum Fields in Cosmology". Funded by: NOTUR.
2014-2016	Host of Marie Curie Fellow, **David Weir**. "Gravitational Wave Cosmology for LISA". Funded by: EU-MSC scheme.
2012-2016	University of Copenhagen, **Velux Young Investigator Grant**. Principal Investigator. "The Origin of the Matter/Antimatter Asymmetry in the Universe". Funded by: Velux Foundation.
2010-2012	Niels Bohr Institute, **Carlsberg Personal Fellowship**. Funded by: Carlsberg Foundation.

Supervision of students and postdoctoral fellows

Master's students	Ph.D. students	Postdoctoral fellows	University/institution - Country
5	5	3	Department of Mathematics and Physics, University of Stavanger, Norway
2	2	1	Previous (Copenhagen, Sussex, Helsinki)

Other relevant professional experiences

Year	Description – Role
2020 -	**Member of the Committee for Culture and Art,** University of Stavanger, Norway
2020 -	**Fellow, The Royal Society of Sciences and Letters.**
2018 - 2020	**Study Program Manager,** Mathematics and Physics, University of Stavanger**.** Member of faculty study programme committee.
2018 - 2019	**Vice-Chair of the Faculty Board**, Faculty of Science and Technology, University of Stavanger.
2018- 2020	**Employee representative, Recruitment Committee,** Faculty of Science and Technology, University of Stavanger.
2016	**Chair of Organising committee**, "Strong and Electroweak Matter", University of Stavanger.
2016	**Main organiser, Public Exhibition** on "Particle Physics and Cosmology", Science Museum "Vitenfabrikken", Sandnes.
2006 -	**Member** of 5 Ph.D.-evaluation committees.
2004-	**Referee** for Physical Review Letters, Physical Review D, Physics Letters B, JHEP, JCAP.

10-year track record

PUBLICATIONS SUMMARY

68 peer-reviewed publications from 2001 to 2022 (not including contributions to proceedings**),** average citations: 33 (excl. self-citations), h-index: 24.

Representative Publications in the past 10 years as main contributor:

C. Caprini, M. Chala, G. C. Dorsch, M. Hindmarsh, S. J. Huber, T. Konstandin, J. Kozaczuk, G. Nardini, J. M. No, K. Rummukainen, P. Schwaller, G. Servant, A. Tranberg and D. J. Weir, ``Detecting gravitational waves from cosmological phase transitions with LISA: an update,'' JCAP **03** (2020), 024 doi:10.1088/1475-7516/2020/03/024 [arXiv:1910.13125 [astro-ph.CO]]. [**Co-author, writing**].

Z. G. Mou, P. M. Saffin, A. Tranberg and S. Woodward, ``Real-time quantum dynamics, path integrals and the method of thimbles,'' JHEP **06** (2019), 094 doi:10.1007/JHEP06(2019)094 [arXiv:1902.09147 [hep-lat]]. [**Main author, supervision, numerical implemenation and analysis, writing**].

J. O. Andersen, T. Gorda, A. Helset, L. Niemi, T. V. I. Tenkanen, A. Tranberg, A. Vuorinen and D. J. Weir, ``Nonperturbative Analysis of the Electroweak Phase Transition in the Two Higgs Doublet Model,'' Phys. Rev. Lett. **121** (2018) no.19, 191802 doi:10.1103/PhysRevLett.121.19180 [arXiv:1711.09849 [hep-ph]]. [**Main author, numerical analysis, writing**].

T. Brauner, T. V. I. Tenkanen, A. Tranberg, A. Vuorinen and D. J. Weir, ``Dimensional reduction of the Standard Model coupled to a new singlet scalar field,'' JHEP **03** (2017), 007 doi:10.1007/JHEP03(2017)007 [arXiv:1609.06230 [hep-ph]]. [**Main author, numerical analysis, writing**].

J. O. Andersen, W. R. Naylor and A. Tranberg, ``Phase diagram of QCD in a magnetic field: A review,'' Rev. Mod. Phys. **88** (2016), 025001 doi:10.1103/RevModPhys.88.025001 [arXiv:1411.7176 [hep-ph]]. [**Main author, writing**].

M. D'Onofrio, K. Rummukainen and A. Tranberg, ``Sphaleron Rate in the Minimal Standard Model,'' Phys. Rev. Lett. **113** (2014) no.14, 141602 doi:10.1103/PhysRevLett.113.141602 [arXiv:1404.3565 [hep-ph]]. [**Main author, supervision, analytical computation, writing**].

J. O. Andersen, W. R. Naylor and A. Tranberg, ``Chiral and deconfinement transitions in a magnetic background using the functional renormalization group with the Polyakov loop,'' JHEP **04** (2014), 187 doi:10.1007/JHEP04(2014)187 [arXiv:1311.2093 [hep-ph]]. [**Main author, numerical implementation, writing**].

P. H. Damgaard, D. O'Connell, T. C. Petersen and A. Tranberg, ``Constraints on New Physics from Baryogenesis and Large Hadron Collider Data,'' Phys. Rev. Lett. **111** (2013) no.22, 221804 doi:10.1103/PhysRevLett.111.221804 [arXiv:1305.4362 [hep-ph]]. [**Main author, numerical implementation, writing**].

J. O. Andersen and A. Tranberg, ``The Chiral transition in a magnetic background: Finite density effects and the functional renormalization group,'' JHEP **08** (2012), 002 doi:10.1007/JHEP08(2012)002 [arXiv:1204.3360 [hep-ph]]. [**Main author, numerical implementation, writing**].

T. Brauner, O. Taanila, A. Tranberg and A. Vuorinen, ``Temperature Dependence of Standard Model CP Violation,'' Phys. Rev. Lett. **108** (2012), 041601 doi:10.1103/PhysRevLett.108.041601 [arXiv:1110.6818 [hep-ph]]. [**Main author, analytical computations, writing**].

Invited presentations to internationally established conferences and/or international advanced schools:

50+ talks at conferences, workshops and seminar.

Major contributions to the early careers of excellent researchers:

Supervisor/Host: Marie Curie Grant of Dr. David Weir (now Associate Professor, University of Helsinki).

Ph.D.-Supervisor: Dr. Tommi Markkanen (now Postdoc KBFI, Tallinn).

ORGANISATION of INTERNATIONAL CONFERENCES/WORKSHOPS/SCHOOLS

Member of the scientific organizing committee of 10 workshops/conferences:

Year	Description – Role
2022	**Co-organizer of** the **15th Quark Confinement and the Hadron Spectrum** conference, University of Stavanger, Norway (~350 participants)
2021	**Co-chair** of the **Fysikermøte** (biennial meeting of the Norwegian Physical society). Stavanger, Norway. (~100 participants).
2021	**Co-organizer** of the **14th Quark Confinement and the Hadron Spectrum** conference, University of Stavanger, Norway (~350 participants)
2021	**Co-organizer** of the **18th International Conference for QCD in extreme conditions** XQCD, NTNU, Norway (~100 participants)
2016	**Chair** of the 2020 edition of **Strong and Electroweak Matter**, University of Stavanger, Norway. (~100 participants).
2015	**Co-organizer** of the second workshop of the LISA Cosmology Working group, University of Stavanger.
2004-2013	**Co-organizer,** multiple workshops/conferences in Amsterdam, Sussex, Cambridge, Oulu, Helsinki, Copenhagen.

Awards

Year	Award – Occasion – Country
2020	**2019 Lyse Research Prize**, Norway**.**

FULL PUBLICATION LIST

A. Tranberg and G. Ungersbäck,
``Bubble nucleation and quantum initial conditions in classical statistical simulations,"
JHEP 09 (2022), 206 doi:10.1007/JHEP09(2022)206 [arXiv:2206.08691 [hep-lat]].

S. Woodward, P. M. Saffin, Z. G. Mou and A. Tranberg,
``Optimisation of Thimble simulations and quantum dynamics of multiple fields in real time,"
JHEP 10 (2022), 082 doi:10.1007/JHEP10(2022)082 [arXiv:2204.10101 [hep-th]].

J. O. Andersen, M. Eriksson and A. Tranberg,
``Stochastic inflation from quantum field theory and the parametric dependence of the effective noise amplitude,"
JHEP 02 (2022), 121 doi:10.1007/JHEP02(2022)121 [arXiv:2111.14503 [hep-ph]].

J. O. Andersen, M. Eriksson and A. Tranberg,
``Quantum corrections to slow-roll inflation: scalar and tensor modes,"
JHEP 04 (2021), 273 doi:10.1007/JHEP04(2021)273 [arXiv:2011.12030 [hep-ph]].

P. Millington, Z. G. Mou, P. M. Saffin and A. Tranberg,
``Statistics on Lefschetz thimbles: Bell/Leggett-Garg inequalities and the classical-statistical approximation,"
JHEP 03 (2021), 077 doi:10.1007/JHEP03(2021)077 [arXiv:2011.02657 [hep-th]].

Z. G. Mou, P. M. Saffin and A. Tranberg,
``Simulations of a bubble wall interacting with an electroweak plasma,"
JHEP 02 (2021), 189 doi:10.1007/JHEP02(2021)189 [arXiv:2006.13620 [hep-th]].

C. Caprini, M. Chala, G. C. Dorsch, M. Hindmarsh, S. J. Huber, T. Konstandin, J. Kozaczuk, G. Nardini, J. M. No and K. Rummukainen, \textit{et al.
`Detecting gravitational waves from cosmological phase transitions with LISA: an update,"
JCAP 03 (2020), 024 doi:10.1088/1475-7516/2020/03/024 [arXiv:1910.13125 [astro-ph.CO]].

Z. G. Mou, P. M. Saffin and A. Tranberg,
``Quantum tunnelling, real-time dynamics and Picard-Lefschetz thimbles,"
JHEP 11 (2019), 135 doi:10.1007/JHEP11(2019)135 [arXiv:1909.02488 [hep-th]].

Z. G. Mou, P. M. Saffin, A. Tranberg and S. Woodward,
``Real-time quantum dynamics, path integrals and the method of thimbles,"
JHEP 06 (2019), 094 doi:10.1007/JHEP06(2019)094 [arXiv:1902.09147 [hep-lat]].

Z. G. Mou, P. M. Saffin and A. Tranberg,
``Simulations of Cold Electroweak Baryogenesis: Dependence on the source of CP-violation,"
JHEP 05 (2018), 197 doi:10.1007/JHEP05(2018)197 [arXiv:1803.07346 [hep-ph]].

J. O. Andersen, T. Gorda, A. Helset, L. Niemi, T. V. I. Tenkanen, A. Tranberg, A. Vuorinen and D. J. Weir,
``Nonperturbative Analysis of the Electroweak Phase Transition in the Two Higgs Doublet Model,"
Phys. Rev. Lett. 121 (2018) no.19, 191802 doi:10.1103/PhysRevLett.121.191802 [arXiv:1711.09849 [hep-ph]].

Z. G. Mou, P. M. Saffin and A. Tranberg,

``Simulations of Cold Electroweak Baryogenesis: Quench from portal coupling to new singlet field,"
JHEP 01 (2018), 103 doi:10.1007/JHEP01(2018)103 [arXiv:1711.04524 [hep-ph]].

A. Tranberg, S. T\"ahtinen and D. J. Weir,
``Gravitational waves from non-Abelian gauge fields at a tachyonic transition,"
JCAP 04 (2018), 012 doi:10.1088/1475-7516/2018/04/012 [arXiv:1706.02365 [hep-ph]].

Z. G. Mou, P. M. Saffin and A. Tranberg,
``Simulations of Cold Electroweak Baryogenesis: Hypercharge U(1) and the creation of helical magnetic fields,"
JHEP 06 (2017), 075 doi:10.1007/JHEP06(2017)075 [arXiv:1704.08888 [hep-ph]].

Z. G. Mou, P. M. Saffin, P. Tognarelli and A. Tranberg,
``Simulations of \textquotedblleft{ tunnelling of the 3rd kind\textquotedblright{ ,"
JHEP 07 (2017), 015 doi:10.1007/JHEP07(2017)015 [arXiv:1703.08375 [hep-ph]].

Z. G. Mou, P. M. Saffin and A. Tranberg,
``Simulations of Cold Electroweak Baryogenesis: Finding the optimal quench time,"
JHEP 07 (2017), 010 doi:10.1007/JHEP07(2017)010 [arXiv:1703.01781 [hep-ph]].

T. Brauner, T. V. I. Tenkanen, A. Tranberg, A. Vuorinen and D. J. Weir,
``Dimensional reduction of the Standard Model coupled to a new singlet scalar field,"
JHEP 03 (2017), 007 doi:10.1007/JHEP03(2017)007 [arXiv:1609.06230 [hep-ph]].

M. Herranen, A. Hohenegger, A. Osland and A. Tranberg,
``Quantum corrections to inflation: the importance of RG-running and choosing the optimal RG-scale,"
Phys. Rev. D 95 (2017) no.2, 023525 doi:10.1103/PhysRevD.95.023525 [arXiv:1608.08906 [hep-ph]].

P. H. Damgaard, A. Haarr, D. O'Connell and A. Tranberg,
``Effective Field Theory and Electroweak Baryogenesis in the Singlet-Extended Standard Model,"
JHEP 02 (2016), 107 doi:10.1007/JHEP02(2016)107 [arXiv:1512.01963 [hep-ph]].

Z. G. Mou, P. M. Saffin and A. Tranberg,
``Cold Baryogenesis from first principles in the Two-Higgs Doublet model with Fermions,"
JHEP 06 (2015), 163 doi:10.1007/JHEP06(2015)163 [arXiv:1505.02692 [hep-ph]].

M. Herranen, A. Osland and A. Tranberg,
``Quantum corrections to inflaton dynamics: The semiclassical approach and the semiclassical limit,"
Phys. Rev. D 92 (2015) no.8, 083530 doi:10.1103/PhysRevD.92.083530 [arXiv:1503.07661 [hep-ph]].

R. Lerner and A. Tranberg,
``Thermal blocking of preheating,"
JCAP 04 (2015), 014 doi:10.1088/1475-7516/2015/04/014 [arXiv:1502.01718 [astro-ph.CO]].

J. O. Andersen, W. R. Naylor and A. Tranberg,
``Phase diagram of QCD in a magnetic field: A review,"

Rev. Mod. Phys. 88 (2016), 025001 doi:10.1103/RevModPhys.88.025001 [arXiv:1411.7176 [hep-ph]].

J. O. Andersen, W. R. Naylor and A. Tranberg,
``Inverse magnetic catalysis and regularization in the quark-meson model,"
JHEP 02 (2015), 042 doi:10.1007/JHEP02(2015)042 [arXiv:1410.5247 [hep-ph]].

M. D'Onofrio, K. Rummukainen and A. Tranberg,
``Sphaleron Rate in the Minimal Standard Model,"
Phys. Rev. Lett. 113 (2014) no.14, 141602 doi:10.1103/PhysRevLett.113.141602 [arXiv:1404.3565 [hep-ph]].

P. M. Saffin, P. Tognarelli and A. Tranberg,
``Oscillon Lifetime in the Presence of Quantum Fluctuations,"
JHEP 08 (2014), 125 doi:10.1007/JHEP08(2014)125 [arXiv:1401.6168 [hep-ph]].

M. Herranen, T. Markkanen and A. Tranberg,
``Quantum corrections to scalar field dynamics in a slow-roll space-time,"
JHEP 05 (2014), 026 doi:10.1007/JHEP05(2014)026 [arXiv:1311.5532 [hep-ph]].

J. O. Andersen, W. R. Naylor and A. Tranberg,
``Chiral and deconfinement transitions in a magnetic background using the functional renormalization group with the Polyakov loop,"
JHEP 04 (2014), 187 doi:10.1007/JHEP04(2014)187 [arXiv:1311.2093 [hep-ph]].

A. Tranberg and D. J. Weir,
``On the quantum stability of Q-balls,"
JHEP 04 (2014), 184 doi:10.1007/JHEP04(2014)184 [arXiv:1310.7487 [hep-ph]].

Z. G. Mou, P. M. Saffin and A. Tranberg,
``Ensemble fermions for electroweak dynamics and the fermion preheating temperature,"
JHEP 11 (2013), 097 doi:10.1007/JHEP11(2013)097 [arXiv:1307.7924 [hep-ph]].

P. H. Damgaard, D. O'Connell, T. C. Petersen and A. Tranberg,
``Constraints on New Physics from Baryogenesis and Large Hadron Collider Data,"
Phys. Rev. Lett. 111 (2013) no.22, 221804 doi:10.1103/PhysRevLett.111.221804 [arXiv:1305.4362 [hep-ph]].

T. Markkanen and A. Tranberg,
``A Simple Method for One-Loop Renormalization in Curved Space-Time,"
JCAP 08 (2013), 045 doi:10.1088/1475-7516/2013/08/045 [arXiv:1303.0180 [hep-th]].

A. Tranberg and B. Wu,
``On using Cold Baryogenesis to constrain the Two-Higgs Doublet Model,"
JHEP 01 (2013), 046 doi:10.1007/JHEP01(2013)046 [arXiv:1210.1779 [hep-ph]].

E. A. Andersen and A. Tranberg,
``Four results on ϕ^4 oscillons in D+1 dimensions,"
JHEP 12 (2012), 016 doi:10.1007/JHEP12(2012)016 [arXiv:1210.2227 [hep-ph]].

T. Brauner, O. Taanila, A. Tranberg and A. Vuorinen,
``Computing the temperature dependence of effective CP violation in the standard model,"

JHEP 11 (2012), 076 doi:10.1007/JHEP11(2012)076 [arXiv:1208.5609 [hep-ph]].

M. D'Onofrio, K. Rummukainen and A. Tranberg,
``The Sphaleron Rate through the Electroweak Cross-over,"
JHEP 08 (2012), 123 doi:10.1007/JHEP08(2012)123 [arXiv:1207.0685 [hep-ph]].

T. Markkanen and A. Tranberg,
``Quantum Corrections to Inflaton and Curvaton Dynamics,"
JCAP 11 (2012), 027 doi:10.1088/1475-7516/2012/11/027 [arXiv:1207.2179 [gr-qc]].

K. Enqvist, R. N. Lerner, O. Taanila and A. Tranberg,
``Spectator field dynamics in de Sitter and curvaton initial conditions,"
JCAP 10 (2012), 052 doi:10.1088/1475-7516/2012/10/052 [arXiv:1205.5446 [astro-ph.CO]].

J. O. Andersen and A. Tranberg,
``The Chiral transition in a magnetic background: Finite density effects and the functional renormalization group,"
JHEP 08 (2012), 002 doi:10.1007/JHEP08(2012)002 [arXiv:1204.3360 [hep-ph]].

A. Tranberg and B. Wu,
``Cold Electroweak Baryogenesis in the Two Higgs-Doublet Model,"
JHEP 07 (2012), 087 doi:10.1007/JHEP07(2012)087 [arXiv:1203.5012 [hep-ph]].

P. M. Saffin and A. Tranberg,
``Dynamical simulations of electroweak baryogenesis with fermions,"
JHEP 02 (2012), 102 doi:10.1007/JHEP02(2012)102 [arXiv:1111.7136 [hep-ph]].

T. Brauner, O. Taanila, A. Tranberg and A. Vuorinen,
``Temperature Dependence of Standard Model CP Violation,"
Phys. Rev. Lett. 108 (2012), 041601 doi:10.1103/PhysRevLett.108.041601 [arXiv:1110.6818 [hep-ph]].

P. M. Saffin and A. Tranberg,
``Real-time Fermions for Baryogenesis Simulations,"
JHEP 07 (2011), 066 doi:10.1007/JHEP07(2011)066 [arXiv:1105.5546 [hep-ph]].

A. Tranberg,
``Standard Model CP-violation and Cold Electroweak Baryogenesis,"
Phys. Rev. D 84 (2011), 083516 doi:10.1103/PhysRevD.84.083516 [arXiv:1009.2358 [hep-ph]].

A. Rajantie and A. Tranberg,
``Counting Defects with the Two-Point Correlator,"
JHEP 08 (2010), 086 doi:10.1007/JHEP08(2010)086 [arXiv:1005.0269 [hep-ph]].

K. Enqvist, P. Stephens, O. Taanila and A. Tranberg,
``Fast Electroweak Symmetry Breaking and Cold Electroweak Baryogenesis,"
JCAP 09 (2010), 019 doi:10.1088/1475-7516/2010/09/019 [arXiv:1005.0752 [astro-ph.CO]].

A. Tranberg, A. Hernandez, T. Konstandin and M. G. Schmidt,
``Cold electroweak baryogenesis with Standard Model CP violation,"
Phys. Lett. B 690 (2010), 207-212 doi:10.1016/j.physletb.2010.05.030 [arXiv:0909.4199 [hep-ph]].

G. Aarts, N. Laurie and A. Tranberg,
``Effective convergence of the 2PI-1/N expansion for nonequilibrium quantum fields,"
Phys. Rev. D 78 (2008), 125028 doi:10.1103/PhysRevD.78.125028[arXiv:0809.3390 [hep-ph]].

A. Tranberg,
``Quantum field thermalization in expanding backgrounds,"
JHEP 11 (2008), 037 doi:10.1088/1126-6708/2008/11/037 [arXiv:0806.3158 [hep-ph]].

G. Aarts and A. Tranberg,
``Thermal effects on slow-roll dynamics,"
Phys. Rev. D 77 (2008), 123521 doi:10.1103/PhysRevD.77.123521 [arXiv:0712.1120 [hep-ph]].

P. M. Saffin and A. Tranberg,
``The Fermion spectrum in braneworld collisions,"
JHEP 12 (2007), 053 doi:10.1088/1126-6708/2007/12/053 [arXiv:0710.3272 [hep-th]].

P. M. Saffin and A. Tranberg,
``Particle transfer in braneworld collisions,"
JHEP 08 (2007), 072 doi:10.1088/1126-6708/2007/08/072 [arXiv:0705.3606 [hep-th]].

G. Aarts and A. Tranberg,
``Particle creation and warm inflation,"
Phys. Lett. B 650 (2007), 65-71 doi:10.1016/j.physletb.2007.04.055 [arXiv:hep-ph/0701205 [hep-ph]].

A. Tranberg, J. Smit and M. Hindmarsh,
``Simulations of cold electroweak baryogenesis: Finite time quenches,"
JHEP 01 (2007), 034 doi:10.1088/1126-6708/2007/01/034 [arXiv:hep-ph/0610096 [hep-ph]].

P. M. Saffin and A. Tranberg,
``Oscillons and quasi-breathers in D+1 dimensions,"
JHEP 01 (2007), 030 doi:10.1088/1126-6708/2007/01/030 [arXiv:hep-th/0610191 [hep-th]].

A. Tranberg, J. Smit and M. Hindmarsh,
``Simulations of cold electroweak baryogenesis,"
Nucl. Phys. A 785 (2007), 102-105 doi:10.1016/j.nuclphysa.2006.11.140 [arXiv:hep-ph/0608167 [hep-ph]].

A. Rajantie and A. Tranberg,
``Looking for defects in the 2PI correlator,"
JHEP 11 (2006), 020 doi:10.1088/1126-6708/2006/11/020 [arXiv:hep-ph/0607292 [hep-ph]].

G. Aarts and A. Tranberg,
``Nonequilibrium dynamics in the O(N) model to next-to-next-to-leading order in the 1/N expansion,"
Phys. Rev. D 74 (2006), 025004 doi:10.1103/PhysRevD.74.025004 [arXiv:hep-th/0604156 [hep-th]].

A. Tranberg and J. Smit,
``Simulations of cold electroweak baryogenesis: Dependence on Higgs mass and strength of CP-violation,"
JHEP 08 (2006), 012 doi:10.1088/1126-6708/2006/08/012 [arXiv:hep-ph/0604263 [hep-ph]].

M. van der Meulen, D. Sexty, J. Smit and A. Tranberg,
``Chern-Simons and winding number in a tachyonic electroweak transition,"
JHEP 02 (2006), 029 doi:10.1088/1126-6708/2006/02/029 [arXiv:hep-ph/0511080 [hep-ph]].

A. Arrizabalaga, J. Smit and A. Tranberg,
``Equilibration in phi**4 theory in 3+1 dimensions,"
Phys. Rev. D 72 (2005), 025014 doi:10.1103/PhysRevD.72.025014 [arXiv:hep-ph/0503287 [hep-ph]].

A. Arrizabalaga, J. Smit and A. Tranberg,
``Tachyonic preheating using 2PI-1/N dynamics and the classical approximation,"
JHEP 10 (2004), 017doi:10.1088/1126-6708/2004/10/017 [arXiv:hep-ph/0409177 [hep-ph]].

B. J. W. van Tent, J. Smit and A. Tranberg,
``Electroweak scale inflation, inflaton Higgs mixing and the scalar spectral index,"
JCAP 07 (2004), 003 doi:10.1088/1475-7516/2004/07/003 [arXiv:hep-ph/0404128 [hep-ph]].

A. Tranberg and J. Smit,
``Baryon asymmetry from electroweak tachyonic preheating,"
JHEP 11 (2003), 016 doi:10.1088/1126-6708/2003/11/016 [arXiv:hep-ph/0310342 [hep-ph]].

J. I. Skullerud, J. Smit and A. Tranberg,
``W and Higgs particle distributions during electroweak tachyonic preheating,"
JHEP 08 (2003), 045 doi:10.1088/1126-6708/2003/08/045 [arXiv:hep-ph/0307094 [hep-ph]].

J. Smit and A. Tranberg,
``Chern-Simons number asymmetry from CP violation at electroweak tachyonic preheating,"
JHEP 12 (2002), 020 doi:10.1088/1126-6708/2002/12/020 [arXiv:hep-ph/0211243 [hep-ph]].

G. D. Moore, K. Rummukainen and A. Tranberg,
``Nonperturbative computation of the bubble nucleation rate in the cubic anisotropy model,"
JHEP 04 (2001), 017 doi:10.1088/1126-6708/2001/04/017 [arXiv:hep-lat/0103036 [hep-lat]].