Prof. Dr. Müller, Marcus (*1967, male)			
Contact	Institut für Theo	Institut für Theoretische Physik	
	Georg-August-l	Jniversität Göttingen	
	Friedrich-Hund-	Platz 1, 37077 Göttingen	
	Phone:	+49 551 39-13888	
	E-Mail:	mmueller@theorie.physik.uni-goettingen.de	
Position	Professor (W3)		

Curriculum vitae (ab hier bitte alle Eigenname in Englisch)		
University training and degree		
1987-1992	Studies and Diploma in Physics, Johannes Gutenberg University Mainz	

Advanced academic qualifications	
1997-1999	Habilitation, Theoretical Physics, Johannes Gutenberg University Mainz
1992-1995	Ph.D., Physics, Johannes Gutenberg University Mainz, Prof. K. Binder

Postgraduate professional career		
Since 2005	VW-Lichtenberg Professor, Institute for Theoretical Physics, University of Goettingen	
2004-2006	Associated Professor (tenured), Physics, University of Wisconsin- Madison, WI, USA	
2001-2004	Heisenberg Fellow, German Science Foundation (DFG)	
1999-2004	Assistant Professor, Institute of Physics, Johannes Gutenberg University, Mainz	
1997-1999	PostDoc, Johannes Gutenberg University, Mainz	
1995-1996	Feodor Lynen Fellow, University of Washington, Seattle, WA, USA	

Other	
Since 2018	Vice-chairman of Chemical and Polymer Physics division of DPG
Since 2016	Associate Editor, ACS Macro Letters
2015-2018	Member of Editorial Board, RCS Molecular Systems Design &

	Engineering
Since 2004	Member of Editorial Board, International Journal of Modern Physics B
2017-2018,2009-2010	Acting director, Institute for Theoretical Physics
2015	Elected fellow of the APS (division of polymer physics)
Since 2012	Member, Scientific Board, J. von Neumann-Institute for Computing, Jülich (vice-chairman, 2015-2017, chairman 2018-)
2010-2012	Member, Physics Evaluation Group, Natural Sciences and Engineering Research Council of Canada (NSERC)
2009	Inventors Recognition Award (Semiconductor Research Cooperation)
2005-2014	Lichtenberg-Professor of the VW foundation
2004	John H. Dillon Medal of the American Physical Society

Research interest

Computational soft-condensed matter and biophysics; Collective phenomena and phase transitions in soft matter; Self-assembly of block copolymers and biological lipids; Membrane fusion; Interfaces, surfaces, and wetting; Thermodynamics, structure and dynamics of polymer melts and solutions; Flow of polymers past hard and soft surfaces; Coarse-grained models; Computer simulation techniques; Numerical self-consistent field theory

Ten most important publications, h=60 (ISI) 67 (google scholar), citations>13 900

a) articles with scientific assurance

- M.A. Cohen-Stuart, W.T.S. Huck, J. Genzer, **M. Müller**, C. Ober, M. Stamm, G.B. Sukhorukov, I. Szleifer, V.V. Tsukruk, M. Urban, F. Winnik, S. Zauscher, I. Luzinov, and S. Minko, Emerging applications of stimuli-responsive polymer materials, Nature Materials **9** (2010), 101.
- M.P. Stoykovich, **M. Müller**, S.O. Kim, H.H. Solak, E.W. Edwards, J.J. de Pablo, and P.F. Nealey, *Directed assembly of block copolymer blends into non-regular device oriented structures*, Science **308** (2005), 1442.
- S. Minko, **M. Müller**, M. Motornov, M. Nitschke, K. Grundke, and M. Stamm, *Two-level structured self-adaptive surfaces with reversibly tunable properties*, J. Am. Chem. Soc. **125** (2003), 3896.
- M.P. Stoykovich, H. Kang, K.Ch. Daoulas, G. Liu, C.-C. Liu, J.J. de Pablo, **M. Müller**, and P.F. Nealey, *Directed Self-Assembly of block copolymers for nanolithography: The fabrication of isolated features and essential integrated circuit geometries*, ACS Nano 1 (2007), 168
- M. Müller, K. Katsov, and M. Schick, *Biological and synthetic membranes: What can be learned from a coarse-grained description?*, Phys. Rep. **434** (2006), 113.
- P. Virnau and **M. Müller**, *Calculation of free energy through successive umbrella sampling*, J. Chem. Phys. 120 (2004), 10925.
- S. Minko, **M. Müller**, D. Usov, A. Scholl, C. Froeck, and M. Stamm, *Lateral versus perpendicular segregation in mixed polymer brushes*, Phys. Rev. Lett. **88** (2002), 035502.

- T. Geisinger, **M. Müller**, and K. Binder, *Symmetric Diblock Copolymers in Thin Films (I):* Phase stability in Self-Consistent Field Calculations and Monte Carlo Simulations, J. Chem. Phys. **111** (1999), 5241.
- **M. Müller**, J.P. Wittmer, and M.E. Cates, *Topological effects in ring polymers: A computer simulation study*, Phys Rev E **53** (1996), 5063.
- H. Kang, F.A. Detcheverry, A.N. Mangham, M.P. Stoykovich, K.Ch. Daoulas, **M. Müller**, J.J. de Pablo, and P.F. Nealey, *Hierarchical assembly of nanoparticle superstructures from block copolymer-nanoparticle composites*, Phys. Rev. Lett. **100** (2008), 148303.

c) patents

- M.P. Stoykovich, H. Kang, K.Ch. Daoulas, J.J. de Pablo, **M. Müller**, and P.F. Nealey, *Methods and compositions for forming patterns with isolated or discrete features using block copolymer materials*, US 8133534 B2, US 8501304 B2
- P.F. Nealey, M.P. Stoykovich, K. Ch. Daoulas, **M. Müller**, J.J. de Pablo, and S.M. Park, Fabrication of complex three-dimensional structure based on directed assembly of self-assembling materials on activated two-dimensional templates, US 8168284 B2
- R. Shenhar, P.F. Nealey, **M. Müller**, and K.Ch. Daoulas, *Quasi-block copolymer melts*, processes for their preparation and uses thereof, US 9181403 B2