

Prof. Dr. Michael Wick

Books

1. **Michael Wick**
Quantenmechanik mit Concept-Maps (2019)
Mit Struktur und Übersicht besser verstehen und lernen
Published with Springer Spektrum
ISBN 978-3-662-59423-0
<https://link.springer.com/book/10.1007/978-3-662-59424-7>
2. **Michael Wick**
Klassische Mechanik mit Concept-Maps (2021)
Strukturiert durch die Theoretische Physik I
Published with Springer Spektrum
ISBN 978-3-662-62543-9
<https://link.springer.com/book/10.1007/978-3-662-62544-6>
3. **Michael Wick**
Quantum Mechanics with Concept Maps (2023)
Published with Cambridge University Press
ISBN 978-1-009-23488-7
<https://www.cambridge.org/highereducation/books/quantum-mechanics-with-concept-maps/40ADF40EE5B16DA7B3AC44DBB740CAB3>

Journal Publications

1. **Laura Hoen, Christoph Rudisch, Michael Wick, Daniela Indenbirken, Adam Grundhoff, Florian Wegwitz, Stefan Kalkhof, Janosch Hildebrand**
Osmotic stress interferes with DNA damage response and H2AX phosphorylation in human keratinocytes
Published in *Cells* 2022, 11(6), 959
2. **Marco Mout, Andreas Flesch, Michael Wick, Florian Bociort, Jörg Petschulat, Paul Urbach**
Ray-based method for simulating cascaded diffraction in high-numerical-aperture systems
Published in *Journal of the Optical Society of America A* 35(8):1356
3. **Michael Wick et al.**
German-Chinese cooperative Bachelor in Engineering Physics/Optoelectronics
Published in the Proceedings of Conference on Education and Training in Optics and Photonics, ETOP 2017

4. **Marco Mout, Michael Wick, Florian Bociort, Jörg Petschulat, Paul Urbach**
Simulating multiple diffraction in imaging systems using a path integration method
Published in Applied Optics 55(14):3847
5. **Catarina Dias, Michael Wick, Katharina Rifai, Siegfried Wahl**
Peripheral Retinal Image Simulation Based on Retina Shapes
Published in EG 2016 - Short Papers
6. **Marco Mout, Michael Wick, Florian Bociort, Paul Urbach**
A Wigner-based ray-tracing method for imaging simulations
Published in SPIE Proceedings Vol. 9630: Optical Systems Design 2015: Computational Optics
7. **Aoife Bharucha, Thorsten Feldmann, Michael Wick**
Theoretical and Phenomenological Constraints on Form Factors for Radiative and Semi-Leptonic B-Meson Decays
Published in JHEP 1009 (2010) 090
8. **Michael Wick**
Probing New Physics with $b \rightarrow s \ell \ell$ and $b \rightarrow s \nu \nu$ transitions
Published in AIP Conf.Proc. 1200 (2010) 835-838
9. **Wolfgang Altmannshofer, Andrzej Buras, David M. Straub, Michael Wick**
New strategies for New Physics search in $B \rightarrow K^ \nu \text{ anti-}\nu$, $B \rightarrow K \nu \text{ anti-}\nu$ and $B \rightarrow Xs \nu \text{ anti-}\nu$ decays*
Published in JHEP 0904 (2009) 022
10. **Wolfgang Altmannshofer, Patricia Ball, Aoife Bharucha, Andrzej Buras, David M. Straub, Michael Wick**
Symmetries and Asymmetries of $B \rightarrow K^ \mu^+ \mu^-$ Decays in the Standard Model and Beyond*
Published in JHEP 0901 (2009) 019
11. **Michael Wick, Wolfgang Altmannshofer**
A Reconsideration of the $b \rightarrow s$ gamma Decay in the Minimal Flavor Violating MSSM
Published in AIP Conf.Proc. 1078 (2009) 348-353
12. **Wolfgang Altmannshofer, Andrzej J. Buras, Diego Guadagnoli, Michael Wick**
Large $|V_{ub}|$: A Challenge for the minimal flavour violating MSSM
Published in JHEP 0712 (2007) 096

Patents and Patent Applications

1. US 20150002814A1, Microscopy system and method for imaging phase objects
2. DE 102013010844A1, Mikroskopiesystem zur Abbildung von Phasenobjekten, Verfahren zum Betreiben des Mikroskopiesystems und Computerprogrammprodukt
3. WO 2015106829 A1, Image capturing simulation in a coordinate measuring apparatus
4. CN106415198B, Image recording method and coordinate measuring machine for carrying out said method
5. EP3071928B1, Image capturing simulation in a coordinate measuring apparatus
6. US 9990724B2, Image recording simulation in a coordinate measuring machine
7. DE102015107518A1 Verfahren und Vorrichtung zur Bestimmung von optischen Eigenschaften
8. DE102018109726A1 Verfahren und Vorrichtung zur Cornea-Vermessung
9. DE102018118187A1 Verfahren und Datenverarbeitungssystem zur Synthese von Bildern
10. WO2020021121A1 Method and data-processing system for synthesizing images