Ausgewählte Fachartikel | Selected Publications

- T. Kupko, M. v. Helversen, L. Rickert, J.-H. Schulze, A. Strittmatter, M. Gschrey, S. Rodt, S. Reitzenstein, **T. Heindel**: Tools for the performance optimization of single-photon quantum key distribution. *npj Quantum Information* **6**, 29 (2020)
- **T. Heindel**, A. Thoma, M. von Helversen, M. Schmidt, A. Schlehahn, M. Gschrey, P. Schnauber, J.-H. Schulze, A. Strittmatter, J. Beyer, S. Rodt, A. Carmele, A. Knorr, und S. Reitzenstein: A bright triggered twin-photon source in the solid state. *Nature Communications* 8, 14870 (2017)
- M. Rau, **T. Heindel,** S. Unsleber, T. Braun, J. Fischer, S. Frick, S. Nauerth, C. Schneider, G. Vest, S. Reitzenstein, M. Kamp, A. Forchel, S. Höfling, and H. Weinfurter: Free space quantum key distribution over 500 meters using electrically driven quantum dot single-photon sources - a proof of principle experiment. *New Journal of Physics* 16, 043003 (2014)
- **T. Heindel**, C.A. Kessler, M. Rau, C. Schneider, M. Fürst, F. Hargart, W.M. Schulz, M. Eichfelder, R. Roßbach, S. Nauerth, M. Lermer, H. Weier, M. Jetter, M. Kamp, S. Reitzenstein, S. Höfling, P. Michler, H. Weinfurter, und A. Forchel: Quantum key distribution using quantum dot single-photon emitting diodes in the red and near infrared spectral range. *New Journal of Physics* 14, 083001 (2012)
- **T. Heindel**, C. Schneider, M. Lermer, S. H. Kwon, T. Braun, S. Reitzenstein, S. Höfling, M. Kamp, und A. Forchel: Electrically driven quantum dot-micropillar single photon source with 34% overall efficiency. *Applied Physics Letters* 96, 011107 (2010)

Begutachtete Fachartikel | Peer-Reviewed Journal Articles

1. T. Kupko, M. v. Helversen, L. Rickert, J.-H. Schulze, A. Strittmatter, M. Gschrey, S. Rodt, S. Reitzenstein, **T. Heindel**: Tools for the performance optimization of single-photon quantum key distribution, *npj Quantum Information* 6, 29 (2020)
2. M. Schmidt, M. v. Helversen, S. Fischbach, A. Kaganskiy, R. Schmidt, A. Schliwa, **T. Heindel**, S. Rodt, und S. Reitzenstein: Deterministically fabricated spectrally-tunable quantum dot based single-photon source, *Optical Materials Express* 10, 76 (2020)
3. S. Rodt, S. Reitzenstein, und **T. Heindel**: Deterministically Fabricated Solid-State Quantum-light Sources, *Journal of Physics: Condensed Matter* 32, 153003 (2020)
4. L. Rickert, T. Kupko, S. Rodt, S. Reitzenstein, und **T. Heindel**: Optimized Designs for Telecom-Wavelength Quantum Light Sources Based on Hybrid Circular Bragg Gratings, *Optics Express* 27, 36824 (2019)
5. L. Bremer, S. Fischbach, S.-I. Park, S. Rodt, J.-D. Song, **T. Heindel**, S. Reitzenstein: Cesium-Vapor-Based Delay of Single Photons Emitted by Deterministically Fabricated Quantum Dot Microlenses, *Advanced Quantum Technologies*, DOI:10.1002/qute.201900071 (2019)
6. M. von Helversen, J. Böhm, M. Schmidt, M. Gschrey, J,-H, Schulze, A. Strittmatter, S. Rodt, J. Beyer, **T. Heindel**, and S. Reitzenstein: Quantum Metrology of Solid-State Single-Photon Sources using Photon-Number-Resolving Detectors, *New Journal of Physics* 21, 035007 (2019)
7. M. Schmidt, M. v. Helversen, M. López, F. Gericke, E. Schlottmann, **T. Heindel**, S. Kück, S. Reitzenstein, und J. Beyer: Photon-Number-Resolving Transition-Edge Sensors for the Metrology of Quantum Light Sources. *Journal of Low Temperature Physics* https://doi.org/10.1007/s10909-018-1932-1 (2018)
8. P. Schnauber, J. Schall, S. Bounouar, T. Höhne, S.-I. Park, G.-H. Ryu, **T. Heindel**, S. Burger, J.-D. Song, S. Rodt, and S. Reitzenstein: Deterministic Integration of Quantum Dots into on-Chip Multimode Interference Beamsplitters Using in Situ Electron Beam Lithography. *Nano Letters* 18, 2336-2342 (2018)
9. A. Schlehahn, S. Fischbach, R. Schmidt, A. Kaganskiy, S. Strittmatter, S. Rodt, **T. Heindel**, and S. Reitzenstein: A stand-alone fiber-coupled single-photon source. *Scientific Reports* 8, 1340 (2018)
10. A. Kaganskiy, F. Gericke, T. Heuser, **T. Heindel**, X. Porte, and S. Reitzenstein: Micropillars with a controlled number of site-controlled quantum dots. *Applied Physics Letters* 112, 071101 (2018)
11. A. Kaganskiy, S. Fischbach, A. Strittmatter, S. Rodt, **T. Heindel**, and S. Reitzenstein: Enhancing the photon-extraction efficiency of site-controlled quantum dots by deterministically fabricated microlenses. *Optics Communications* 413, 162–166 (2018)

12. F. Gericke, M. Segnon, M. v. Helversen, C. Hopfmann, **T. Heindel**, C. Schneider, S. Höfling, M. Kamp, A. Musiał, X. Porte, C. Gies, and S. Reitzenstein: Controlling the gain contribution of background emitters in few-quantum-dot microlasers. *New Journal of Physics* 20, 023036 (2018).
13. **T. Heindel**, A. Thoma, I. Schwartz, E. R. Schmidgall, L. Gantz, D. Cogan, M. Strauß, P. Schnauber, M. Gschrey, J.-H. Schulze, A. Strittmatter, S. Rodt, D. Gershoni, and S. Reitzenstein: Accessing the dark exciton spin in deterministic quantum-dot microlenses. *APL Photonics* 2, 121303 (2017)
14. S. Fischbach, A. Kaganskiy, E. B. Y. Tauscher, F. Gericke, A. Thoma, R. Schmidt, A. Strittmatter, **T. Heindel**, S. Rodt, und S. Reitzenstein: Efficient single-photon source based on a deterministically fabricated single quantum dot - microstructure with backside gold mirror. *Applied Physics Letters* 111, 011106 (2017)
15. S. Fischbach, A. Schlehahn, A. Thoma, N. Srocka, T. Gissibl, S. Ristok, S. Thiele, A. Kaganskiy, A. Strittmatter, **T. Heindel**, S. Rodt, A. Herkommer, H. Giessen, und S. Reitzenstein: Single Quantum Dot with Microlens and 3D-Printed Micro-objective as Integrated Bright Single-Photon Source. *ACS Photonics* 4 (6), 1327–1332 (2017)
16. C. Gies, F. Gericke, P. Gartner, S. Holzinger, C. Hopfmann, **T. Heindel**, J. Wolters, C. Schneider, M. Florian, F. Jahnke, S. Höfling, M. Kamp, und S. Reitzenstein: Strong light-matter coupling in the presence of lasing. *Physical Review A* 96, 023806 (2017)
17. P. Munnelly, **T. Heindel**, A. Thoma, M. Kamp, S. Höfling, C. Schneider, und S. Reitzenstein: Electrically Tunable Single-Photon Source Triggered by a Monolithically Integrated Quantum Dot Microlaser. *ACS Photonics* 4 (4), 790-794 (2017)
18. **T. Heindel**, A. Thoma, M. von Helversen, M. Schmidt, A. Schlehahn, M. Gschrey, P. Schnauber, J.-H. Schulze, A. Strittmatter, J. Beyer, S. Rodt, A. Carmele, A. Knorr, und S. Reitzenstein: A bright triggered twin-photon source in the solid state. *Nature Communications* 8, 14870 (2017)
19. P. Munnelly, B. Lingnau, M. M. Karow, **T. Heindel**, M. Kamp, S. Höfling, K. Lüdge, C. Schneider, und S. Reitzenstein: On-chip optoelectronic feedback in a micropillar laser-detector assembly. *Optica* 4 (3), 303-306 (2017)
20. V. A. Gaisler. I. A. Derebezov, A. V. Gaisler, D. V. Dmitriev, A. I. Toropov, S. Fischbach, A. Schlehahn, A. Kaganskiy, **T. Heindel**, S. Bounouar, S. Rodt, und S. Reitzenstein: Hybrid microcavity for superminiature single quantum dot based emitters. *Optoelectronics, Instrumentation and Data Processing* 53, 178 (2017)
21. A. Thoma, P. Schnauber, J. Böhm, M. Gschrey, J.-H. Schulze, A. Strittmatter, S. Rodt, **T. Heindel**, und S. Reitzenstein: Two-photon interference from remote deterministic quantum dot microlenses. *Applied Physics Letters* 110, 011104 (2017)
22. A. Schlehahn, A. Thoma, P. Munnelly, M. Kamp, S. Höfling, **T. Heindel**, C. Schneider, und S. Reitzenstein: An electrically driven cavity-enhanced source of indistinguishable photons with 61% overall efficiency. *APL Photonics* 1, 011301 (2016)
23. M. M. Karow, P. Munnelly, **T. Heindel**, M. Kamp, S. Höfling, C. Schneider, und S. Reitzenstein: On-chip light detection using monolithically integrated quantum dot micropillars. *Applied Physics Letters* 108, 081110 (2016)
24. A. Thoma, P. Schnauber, M. Gschrey, M. Seifried, J. Wolters, J. -H. Schulze, A. Strittmatter, S. Rodt, A. Carmele, A. Knorr, **T. Heindel**, und S. Reitzenstein: Exploring Dephasing of a Solid-State Quantum Emitter via Time- and Temperature- Dependent Hong-Ou-Mandel Experiments. *Physical Review Letters* 116, 033601 (2016)
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26. P. Schnauber, A. Thoma, C. V. Heine, A. Schlehahn, L. Gantz, M. Gschrey, R. Schmidt, C. Hopfmann, B. Wohlfeil, J.-H. Schulze, A. Strittmatter, **T. Heindel**, S. Rodt, U. Woggon, D. Gershoni, und S. Reitzenstein: Bright Single-Photon Sources Based on Anti-Reflection Coated Deterministic Quantum Dot Microlenses. *Technologies* 4, 1 (2015)
27. P. Munnelly, **T. Heindel**, M. M. Karow, S. Hofling, M. Kamp, C. Schneider, und S. Reitzenstein: A Pulsed Nonclassical Light Source Driven by an Integrated Electrically Triggered Quantum Dot Microlaser. *IEEE Journal of Selected Topics in Quantum Electronics* 21, 681 (2015)
28. A. Schlehahn, M. Gaafar, M. Vaupel, M. Gschrey, P. Schnauber, J.-H. Schulze, S. Rodt, A. Strittmatter, W. Stolz, A. Rahimi-Iman, **T. Heindel**, M. Koch, und S. Reitzenstein: Single-photon

emission at a rate of 143 MHz from a deterministic quantum-dot microlens triggered by a mode-locked vertical-external-cavity surface-emitting laser. *Applied Physics Letters* 107, 041105 (2015)

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30. A. Kaganskiy, M. Gschrey, A. Schlehahn, R. Schmidt, J.-H. Schulze, **T. Heindel**, A. Strittmatter, S. Rodt, und S. Reitzenstein: Advanced in-situ electron-beam lithography for deterministic nanophotonic device processing. *Review of Scientific Instruments* 86, 073903 (2015)
31. A. Musiał, C. Hopfmann, **T. Heindel**, C. Gies, M. Florian, H. A. M. Leymann, A. Foerster, C. Schneider, F. Jahnke, S. Höfling, M. Kamp, und S. Reitzenstein: Correlations between axial and lateral emission of coupled quantum dot–micropillar cavities. *Physical Review B* 91, 205310 (2015)
32. E. R. Schmidgall, I. Schwartz, D. Cogan, L. Gantz, **T. Heindel**, S. Reitzenstein, und D. Gershoni: All-Optical Depletion of Dark Excitons from a Semiconductor Quantum Dot. *Applied Physics Letters* 106, 193101 (2015)
33. A. Schlehahn, L. Krüger, M. Gschrey, J.-H. Schulze, S. Rodt, A. Strittmatter, **T. Heindel**, und S. Reitzenstein: Operating single quantum emitters with a compact Stirling cryocooler. *Review of Scientific Instruments* 86, 013113 (2015)
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37. **T. Heindel**, C.A. Kessler, M. Rau, C. Schneider, M. Fürst, F. Hargart, W.M. Schulz, M. Eichfelder, R. Roßbach, S. Nauerth, M. Lermer, H. Weier, M. Jetter, M. Kamp, S. Reitzenstein, S. Hofling, P. Michler, H. Weinfurter, und A. Forchel: Quantum key distribution using quantum dot single-photon emitting diodes in the red and near infrared spectral range. *New Journal of Physics* 14, 083001 (2012)
38. C. Schneider, **T. Heindel**, A. Huggenberger, T.A. Niederstrasser, S. Reitzenstein, A. Forchel, S. Höfling, und M. Kamp: Microcavity enhanced single photon emission from an electrically driven site-controlled quantum dot. *Applied Physics Letters* 100, 091108 (2012)
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41. F. Albert, T. Braun, **T. Heindel**, C. Schneider, S. Reitzenstein, S. Höfling, L. Worschech, und A. Forchel: Whispering gallery mode lasing in electrically driven quantum dot micropillars. *Applied Physics Letters* 97, 101108 (2010)
42. J. Heinrich, A. Huggenberger, **T. Heindel**, S. Reitzenstein, S. Höfling, L. Worschech, und A. Forchel: Single photon emission from positioned GaAs/AlGaAs photonic nanowires. *Applied Physics Letters* 96, 211117 (2010)
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45. **T. Heindel**, C. Schneider, M. Lermer, S. H. Kwon, T. Braun, S. Reitzenstein, S. Höfling, M. Kamp, und A. Forchel: Electrically driven quantum dot-micropillar single photon source with 34% overall efficiency. *Applied Physics Letters* 96, 011107 (2010)
46. C. Schneider, A. Huggenberger, T. Sünner, **T. Heindel**, M. Strauss, S. Göpfert, P. Weinmann, S. Reitzenstein, L. Worschech, M. Kamp, S. Höfling, und A. Forchel: Single site-controlled In(Ga)As/GaAs quantum dots: growth, properties and device integration. *Nanotechnology* 20, 434012 (2009)
47. S. Münch, S. Reitzenstein, P. Franeck, A. Löffler, **T. Heindel**, S. Höfling, L. Worschech, und A. Forchel: The role of optical excitation power on the emission spectra of a strongly coupled quantum dot-micropillar system. *Optics Express* 17, 12821 (2009)
48. C. Schneider, **T. Heindel**, A. Huggenberger, P. Weinmann, C. Kistner, M. Kamp, S. Reitzenstein, S. Höfling, und A. Forchel: Single photon emission from a site-controlled quantum dot-micropillar cavity system. *Applied Physics Letters* 94, 111111 (2009)
49. C. Kistner, **T. Heindel**, C. Schneider, A. Rahimi-Iman, S. Reitzenstein, S. Höfling, und A. Forchel: Demonstration of strong coupling via electro-optical tuning in high-quality QD-micropillar systems. *Optics Express* 16, 15006 (2008)
50. S. Reitzenstein, **T. Heindel**, C. Kistner, A. Rahimi-Iman, C. Schneider, S. Höfling, und A. Forchel: Low threshold electrically pumped quantum dot-micropillar lasers. *Applied Physics Letters* 93, 061104 (2008)

Buchkapitel | Book Chapters

- S. Rodt, P.-I. Schneider, L. Zschiedrich, **T. Heindel**, S. Bounouar, M. Kantner, T. Koprucki, U. Bandelow, S. Burger and S. Reitzenstein: Deterministic Quantum Devices for Optical Quantum Communication, in Book „Semiconductor Nanophotonics – Materials, Models, Devices“, Springer 2020, Online ISBN: 978-3-030-35656-9, edited by M. Kneissl, A. Knorr, S. Reitzenstein
- U.W. Pohl, A. Strittmatter, A. Schliwa, M. Lehmann, T. Niermann, **T. Heindel**, S. Reitzenstein, M. Kantner, U. Bandelow, T. Koprucki, H.-J. Wünsche: Stressor-Induced Site Control of Quantum Dots for Single-Photon Sources, in Book „Semiconductor Nanophotonics – Materials, Models, Devices“, Springer 2020, Online ISBN: 978-3-030-35656-9, edited by M. Kneissl, A. Knorr, S. Reitzenstein
- **T. Heindel**, S. Rodt, und S. Reitzenstein: Single-Photon Sources Based on Deterministic Quantum-Dot Microlenses, in Book „Quantum Dots for Quantum Information Technologies“, pages 199 - 232, Springer 2017, Online ISBN: 978-3-319-56378-7, edited by P. Michler

Patente | Patents

- A. Schlehahn, **T. Heindel**, S. Rodt, und S. Reitzenstein:
  Optoelectronic Device
  (EP3088927 A1, US9599782 B2, 2017)

Ausgewählte Konferenzpaper | Selected Conference Paper

- **T. Heindel**, M. Rau, S. Unsleber, T. Braun, J. Fischer, C. Schneider, S. Frick, S. Nauerth, G. Vest, S. Reitzenstein, A. Forchel, S. Höfling, H. Weinfurter, und M. Kamp: Free Space Quantum Key Distribution over 500 Meters using Electrically Triggered Quantum Dot Single-Photon Sources Quantum Information and Measurement, QW3A. 4, DOI:10.1364/QIM.2014.QW3A.4
- **T. Heindel**, C. Schneider, M. Lermer, S. Höfling, S. Reitzenstein, L. Worschech, und A. Forchel: Highly efficient electrically triggered quantum dot micropillar single photon source. Journal of Physics Conference Series 09/2010; 245(1). DOI:10.1088/1742-6596/245/1/012005

Präsentierte Konferenzvorträge | Presented Conference Talks

Eingeladen | Invited

1. **T. Heindel**, Engineered Solid-State Quantum-Light Sources for Quantum Communication, Workshop on Theoretical and Numerical Tools for Nanophotonics TNTN2020, Berlin, Germany, September 12.-14., 2020
2. **T. Heindel**, Towards Quantum Communication Networks Exploiting Solid-State Quantum-Light Sources, DPG Fall Meeting (SAMOP, SKM, and SMuK), Main Talk, Freiburg, Germany, September 23.-27., 2019
3. **T. Heindel**, Towards Quantum Communication Networks Exploiting Solid-State Quantum-Light Sources, METANANO 2019, St. Petersburg, Russia, July 15, 2019
4. **T. Heindel**, Towards Quantum Communication Networks Exploiting Solid-State Quantum-Light Sources, DPG Spring Meeting (SKM), Main Talk HL 26.5, Regensburg, Germany, April 3, 2019
5. **T. Heindel**, Accessing the dark exciton spin qubit in deterministic quantum-dot microlenses, International Conference on the Physics of Semiconductors (ICPS) 2018, Montpellier, France, August, 2018 (Upgraded)
6. **T. Heindel**, Exploiting the Bright and the Dark Side of Deterministic Solid-State Quantum-Light Sources, DPG Spring Meeting (SKM), Main Talk HL 25.7, Berlin, Germany, March 14, 2018
7. **T. Heindel**, Quantum Optics with Deterministic Quantum Dot Microlenses, Mauterndorf 2016, 19th International Winterschool, Mauterndorf, Austria, February 26, 2016
8. **T. Heindel**, Exploring the Time-Dependent Coherence of a Quantum Emitter via Two-Photon Interference, 5th French-Korean-German Workshop, Würzburg, Germany, December 15, 2015
9. **T. Heindel**, Advanced Quantum Dot Devices - Enabling On-Chip Quantum Optics and Highly Indistinguishable Photons, Energy, Material & Nanotechnology (EMN) Fall Meeting, Las Vegas, USA, November 18, 2015
10. **T. Heindel**, Quantum Light from Deterministic Quantum-Dot Devices, 4th Korean-German-French Workshop, Gangneung, Southkorea, October 13, 2014

Beitragend | Contributed

- T. Kupko, L. Rickert, M. v. Helversen, A. Schlehahn, S. Rodt, C. Schneider, S. Höfling, M. Rau, H. Weinfurter, S. Reitzenstein, and **T. Heindel**, Single-Photon QKD using Engineered Solid-State Quantum-Light Sources, Single Photon Workshop 2019, Milano, Italy, October 23, 2019
- T. Kupko, L. Rickert, M. v. Helversen, A. Schlehahn, S. Rodt, C. Schneider, S. Höfling, S. Reitzenstein, and **T. Heindel**, Towards Quantum Communication Networks Exploiting Solid-State Quantum-Light Sources, 2nd International Symposium on Single Photon based Quantum Technologies, Berlin-Adlershof, Germany, May 23, 2019
- **T. Heindel**, A. Thoma, M. v. Helversen, M. Schmidt, A. Schlehahn, M. Gschrey, P. Schnauber, J.-H. Schulze, A. Strittmatter, J. Beyer, S. Rodt, A. Carmele, A. Knorr, and S. Reitzenstein, A Bright Triggered Twin-Photon Source in the Solid State, 1st International Symposium on Single Photon based Quantum Technologies, Berlin-Adlershof, Germany, May 31, 2018
- **T. Heindel**, A. Thoma, M. v. Helversen, M. Schmidt, A. Schlehahn, M. Gschrey, P. Schnauber, J.-H. Schulze, A. Strittmatter, J. Beyer, S. Rodt, A. Carmele, A. Knorr, and S. Reitzenstein, A Bright Triggered Twin-Photon Source in the Solid State, OPON 2018, Münster, Germany, February 16, 2018
- **T. Heindel**, A. Thoma, M. v. Helversen, M. Schmidt, A. Schlehahn, M. Gschrey, P. Schnauber, J.-H. Schulze, A. Strittmatter, J. Beyer, S. Rodt, A. Carmele, A. Knorr, and S. Reitzenstein, A Bright Triggered Twin-Photon Source in the Solid State, CLEO/Europe-EQEC 2017, Munich, Germany, June 28, 2017
- **T. Heindel**, A. Thoma, M. v. Helversen, M. Schmidt, A. Schlehahn, M. Gschrey, P. Schnauber, J.-H. Schulze, A. Strittmatter, J. Beyer, S. Rodt, A. Carmele, A. Knorr, and S. Reitzenstein, A Bright Triggered Twin-Photon Source in the Solid State, DPG Spring Meeting (SKM), HL 49.1, Dresden, Germany, March 22, 2017

- **T. Heindel**, A. Thoma, M. v. Helversen, M. Schmidt, A. Schlehahn, M. Gschrey, P. Schnauber, J.-H. Schulze, A. Strittmatter, J. Beyer, S. Rodt, A. Carmele, A. Knorr, and S. Reitzenstein, A deterministic twin-photon source in the solid-state, DPG Spring Meeting (SAMOP), Q 12.7, Mainz, Germany, March 6, 2017
- **T. Heindel**, A. Schlehahn, A. Thoma, P. Munnelly, M. Kamp, S. Höfling, C. Schneider, and S. Reitzenstein, An electrically driven cavity-enhanced source of indistinguishable photons with 61% overall efficiency, DPG Spring Meeting (SKM), HL 5.4, Regensburg, Germany, March 7, 2016
- **T. Heindel**, A. Schlehahn, M. Gaafar, M. Vaupel, M. Gschrey, P. Schnauber, J.-H. Schulze, S. Rodt, A. Strittmatter, W. Stolz, A. Rahimi-Iman, M. Koch, und S. Reitzenstein, Deterministic quantum dot single-photon source triggered by a frequency-doubled mode-locked VECSEL at 500 MHz, Single Photon Workshop 2015 (SPW2015), Genf (Schweiz), 13.-17. July 2015
- **T. Heindel**, A. Thoma, E. Schmidgall, L. Gantz, I. Schwartz, M. Gschrey, P. Schnauber, J.-H. Schulze, A. Strittmatter, S. Rodt, D. Gershoni, and S. Reitzenstein, Toward long-lived excitonic qubits in deterministic quantum-dot microlenses, DPG Spring Meeting (SKM), HL 109.7, Berlin, Germany, March 20, 2015
- **T. Heindel**, L. Krüger, M. Gschrey, M. Seifried, R. Schmidt, J.-H. Schulze, S. Rodt, A. Strittmatter, and S. Reitzenstein, Indistinguishable Photons Generated from Deterministic Quantum Light Sources Fabricated by In-Situ Electron-Beam Lithography, DPG Spring Meeting (SKM), HL 54.3, Dresden, Germany, April 1, 2014
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Stand | Dated 08.05.2020