

Fachverband Quantenoptik und Photonik (Q)

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Übersicht der Hauptvorträge und Fachsitzungen

(Hörsäle V7.01, V7.02 V7.03, V38.01, V38.04, V47.01, V47.02 und V53.01; Poster.I+II)

Hauptvorträge des fachübergreifenden Symposiums SYRA

Das vollständige Programm dieses Symposiums ist unter SYRA aufgeführt.

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|----------|-----|-------------|--------|---|
| SYRA 1.1 | Tue | 10:30–11:00 | V47.01 | Quantum optics and quantum information with Rydberg excited atoms. — ●KLAUS MOLMER |
| SYRA 1.2 | Tue | 11:00–11:30 | V47.01 | Cooperative non-linear optics using Rydberg atoms — ●CHARLES ADAMS |
| SYRA 2.1 | Tue | 14:00–14:30 | V47.01 | Ultralong-range Rydberg molecules — ●THOMAS POHL |
| SYRA 2.2 | Tue | 14:30–15:00 | V47.01 | Quantum Information Processing with Rydberg Atoms — ●PHILIPPE GRANGIER |

Hauptvorträge des fachübergreifenden Symposiums SYPC

Das vollständige Programm dieses Symposiums ist unter SYPC aufgeführt.

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| SYPC 1.1 | Thu | 10:30–11:00 | V47.01 | Quantum Communication: real-world applications and academic research — ●NICOLAS GISIN |
| SYPC 1.2 | Thu | 11:00–11:30 | V47.01 | Trapping and Interfacing Cold Neutral Atoms Using Optical Nanofibers — ●ARNO RAUSCHENBEUTEL |
| SYPC 2.1 | Thu | 14:00–14:30 | V47.01 | Coherent population trapping in quantum dot molecules — KATHARINA WEISS, JEROEN ELZERMAN, ●ATAC IMAMOGLU |
| SYPC 2.2 | Thu | 14:30–15:00 | V47.01 | Nanophotonic Interconnection Networks for Performance-Energy Optimized Computing — ●KEREN BERGMAN |

Hauptvorträge des fachübergreifenden Symposiums SYQM

Das vollständige Programm dieses Symposiums ist unter SYQM aufgeführt.

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| SYQM 1.1 | Fri | 10:30–11:00 | V47.01 | Overview of some recent "atomic-physics" experiments with nitrogen-vacancy centers in diamond — ●DMITRY BUDKER |
| SYQM 1.2 | Fri | 11:00–11:30 | V47.01 | Quantum Limits and Quantum Enhancement in Magnetometry — FEDERICA BEDUINI, NAEIMEH BEHBOOD, YANNICK DE ICAZA, BRICE DUBOST, MARCO KOSCHORRECK, MARIO NAPOLITANO, ANA PREDOJEVIC, ROBERT SEWELL, FLORIAN WOLFGRAMM, ●MORGAN MITCHELL |
| SYQM 2.1 | Fri | 14:00–14:30 | V47.01 | Nanoscale magnetic resonance imaging: Progress and challenges — ●DANIEL RUGAR |
| SYQM 2.2 | Fri | 14:30–15:00 | V47.01 | Optical Far-Field Addressing of Single Spins Beyond the Diffraction Limit at Enhanced Collection Efficiency — ●DOMINIK WILDANGER, JERO MAZE, BENNO KOBERSTEIN-SCHWARZ, JAN MEIJER, SÉBASTIEN PEZZAGNA, BRIAN PATTON, JASON SMITH, STEFAN HELL |

Fachsitzungen

| | | | | |
|-----------|-----|-------------|--------|---|
| Q 1.1–1.9 | Mon | 10:30–12:45 | V53.01 | Quantengase: Bosonen 1 |
| Q 2.1–2.9 | Mon | 10:30–12:45 | V7.03 | Quanteninformaton: Konzepte und Methoden 1 |

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| Q 3.1–3.8 | Mon | 10:30–12:30 | V47.02 | Präzisionsmessungen und Metrologie 1 |
| Q 4.1–4.8 | Mon | 10:30–12:30 | V7.01 | Quanteneffekte: QED |
| Q 5.1–5.8 | Mon | 10:30–12:30 | V38.01 | Ultrakurze Laserpulse: Erzeugung 1 |
| Q 6.1–6.7 | Mon | 10:30–12:15 | V7.02 | Mikromechanische Systeme |
| Q 7.1–7.8 | Mon | 14:00–16:00 | V47.02 | Quantengase: Fermionen |
| Q 8.1–8.8 | Mon | 14:00–16:00 | V38.04 | Quanteninformation: Konzepte und Methoden 2 |
| Q 9.1–9.9 | Mon | 14:00–16:15 | V7.01 | Quanteneffekte: Interferenz und Korrelationen |
| Q 10.1–10.8 | Mon | 14:00–16:00 | V38.01 | Ultrakurze Laserpulse: Anwendungen |
| Q 11.1–11.6 | Mon | 14:00–16:00 | V7.03 | Präzisionsmessungen und Metrologie 2 |
| Q 12.1–12.7 | Mon | 14:00–15:45 | V7.02 | Quanteninformation: Photonen und nichtklass. Licht |
| Q 13.1–13.8 | Mon | 14:00–16:00 | V38.03 | Cold Molecules I |
| Q 14.1–14.10 | Mon | 16:30–19:00 | V47.02 | Quantengase: Bosonen 2 |
| Q 15.1–15.10 | Mon | 16:30–19:00 | V7.01 | Quanteneffekte: Verschränkung und Dekohärenz 1 |
| Q 16.1–16.10 | Mon | 16:30–19:00 | V7.03 | Präzisionsmessungen und Metrologie 3 |
| Q 17.1–17.10 | Mon | 16:30–19:00 | V7.02 | Kalte Atome: Fallen und Kühlung |
| Q 18.1–18.10 | Mon | 16:30–19:00 | V38.01 | Laserentwicklung: Festkörperlaser |
| Q 19.1–19.9 | Mon | 16:30–18:45 | V38.04 | Quanteninformation: Festkörper und Photonen |
| Q 20.1–20.6 | Tue | 10:30–12:30 | V47.01 | SYRA: Ultracold Rydberg Atoms and Molecules 1 |
| Q 21.1–21.8 | Tue | 10:30–12:30 | V53.01 | Quantengase: Optische Gitter 1 |
| Q 22.1–22.7 | Tue | 10:30–12:30 | V7.03 | Quantengase: Wechselwirkungseffekte 1 |
| Q 23.1–23.9 | Tue | 10:30–12:45 | V38.01 | Photonik 1 |
| Q 24.1–24.7 | Tue | 10:30–12:30 | V7.02 | Quanteninformation: Repeater und Speicher |
| Q 25.1–25.8 | Tue | 10:30–12:30 | V7.01 | Quanteninformation: Konzepte und Methoden 3 |
| Q 26.1–26.6 | Tue | 14:00–16:00 | V47.01 | SYRA: Ultracold Rydberg Atoms and Molecules 2 |
| Q 27.1–27.8 | Tue | 14:00–16:00 | V53.01 | Quantengase: Optische Gitter 2 |
| Q 28.1–28.8 | Tue | 14:00–16:00 | V47.02 | Präzisionsmessungen und Metrologie 4 |
| Q 29.1–29.8 | Tue | 14:00–16:00 | V38.01 | Photonik 2 |
| Q 30.1–30.8 | Tue | 14:00–16:00 | V7.03 | Quanteneffekte |
| Q 31.1–31.8 | Tue | 14:00–16:00 | V7.01 | Quanteninformation: Konzepte und Methoden 4 |
| Q 32.1–32.7 | Tue | 14:00–16:00 | V7.02 | Ultra-cold atoms, ions and BEC I |
| Q 33.1–33.7 | Tue | 14:00–16:00 | V55.01 | Precision spectroscopy of atoms and ions I |
| Q 34.1–34.87 | Tue | 16:30–19:00 | Poster.I+II | Poster 1 |
| Q 35.1–35.87 | Wed | 16:30–19:00 | Poster.I+II | Poster 2 |
| Q 36.1–36.6 | Thu | 10:30–12:30 | V47.01 | SYPC: From Atoms to Photonic Circuits 1 |
| Q 37.1–37.10 | Thu | 10:30–13:00 | V7.03 | SYRA: Ultracold Rydberg Atoms and Molecules 3 |
| Q 38.1–38.8 | Thu | 10:30–12:45 | V53.01 | Quantengase: Optische Gitter 3 |
| Q 39.1–39.5 | Thu | 10:30–12:00 | V7.01 | Quantengase: Wechselwirkungseffekte 2 |
| Q 40.1–40.8 | Thu | 10:30–12:30 | V38.01 | Laserentwicklung: HL und nichtlineare Effekte |
| Q 41.1–41.7 | Thu | 10:30–12:30 | V7.02 | Quanteninformation: Atome und Ionen 1 |
| Q 42.1–42.8 | Thu | 10:30–12:30 | V38.04 | Laseranwendungen: Spektroskopie und Lebenswiss. |
| Q 43.1–43.8 | Thu | 10:30–12:30 | V47.02 | Ultra-cold atoms, ions and BEC II |
| Q 44.1–44.6 | Thu | 10:30–12:30 | V47.03 | Precision spectroscopy of atoms and ions II |
| Q 45.1–45.6 | Thu | 14:00–16:00 | V47.01 | SYPC: From Atoms to Photonic Circuits 2 |
| Q 46.1–46.8 | Thu | 14:00–16:00 | V53.01 | Quantengase: Optische Gitter 4 |
| Q 47.1–47.8 | Thu | 14:00–16:00 | V7.02 | Quanteninformation: Atome und Ionen 2 |
| Q 48.1–48.7 | Thu | 14:00–16:00 | V38.01 | Laseranwendungen: opt. Messtechnik |
| Q 49.1–49.8 | Thu | 14:00–16:00 | V7.01 | Quanteninformation: Konzepte und Methoden 5 |
| Q 50.1–50.8 | Thu | 14:00–16:00 | V7.03 | Kalte Atome: Manipulation und Detektion |
| Q 51.1–51.8 | Thu | 14:00–16:00 | V47.02 | Ultra-cold atoms, ions and BEC III |
| Q 52.1–52.8 | Thu | 14:00–16:00 | V47.03 | Precision spectroscopy of atoms and ions III |
| Q 53.1–53.7 | Thu | 14:00–16:00 | V38.03 | Cold Molecules II |
| Q 54.1–54.92 | Thu | 16:30–19:00 | Poster.I+II | Poster 3 |
| Q 55.1–55.7 | Fri | 10:30–12:45 | V47.01 | SYQM: Quantum limited measurement applications 1 |
| Q 56.1–56.8 | Fri | 10:30–12:30 | V47.02 | SYPC: From Atoms to Photonic Circuits 3 |
| Q 57.1–57.7 | Fri | 10:30–12:30 | V7.02 | Kalte Atome |
| Q 58.1–58.9 | Fri | 10:30–13:00 | V38.01 | Photonik 3 |
| Q 59.1–59.6 | Fri | 10:30–12:00 | V38.04 | Ultrakurze Laserpulse |
| Q 60.1–60.6 | Fri | 10:30–12:00 | V53.01 | Materiewellen und Technologie |
| Q 61.1–61.8 | Fri | 10:30–12:30 | V7.01 | Quanteneffekte: Lichtstreuung |
| Q 62.1–62.5 | Fri | 10:30–12:00 | V38.03 | Cold Molecules III |
| Q 63.1–63.7 | Fri | 10:30–12:30 | V57.03 | Ultra-cold atoms, ions and BEC IV |

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| Q 64.1–64.7 | Fri | 10:30–12:15 | V47.03 | Precision spectroscopy of atoms and ions IV |
| Q 65.1–65.7 | Fri | 14:00–16:15 | V47.01 | SYQM: Quantum limited measurement applications 2 |
| Q 66.1–66.9 | Fri | 14:00–16:15 | V38.01 | Photonik 4 |
| Q 67.1–67.8 | Fri | 14:00–16:00 | V7.01 | Quanteneffekte: Verschränkung und Dekohärenz 2 |
| Q 68.1–68.8 | Fri | 14:00–16:00 | V53.01 | Materiewellenoptik |
| Q 69.1–69.8 | Fri | 14:00–16:00 | V38.04 | Quanteninformation: Kommunikation |
| Q 70.1–70.7 | Fri | 14:00–15:45 | V7.03 | Quanteninformation: Konzepte und Methoden 6 |
| Q 71.1–71.6 | Fri | 14:00–15:30 | V57.03 | Ultra-cold plasmas and Rydberg systems |

Mitgliederversammlung des Fachverbandes Quantenoptik und Photonik

Di 12:45–13:45 in V7.02

- Bericht des Sprechers
- Wahl des neuen FV-Sprechers und seines Stellvertreters
- Verschiedenes

Sitzung des Deutschen Optischen Komitee

Fr 12:30–14:00 R. 3.123 am 5. Physikalischen Institut

- Bericht
- Entwicklungen und Preise des ICO
- Verschiedenes