Quantum Future Academy 2018 & 2019

Retrospective

Facts

2018:

- 30 participants from all over Germany and Austria
- Taking place in Munich, Ulm and Stuttgart
- 10 companies/start-ups directly involved
- Full week program with Design Thining Workshop, start-up event in a makerspace, city tours, scientific and industry talks with different QT-focus, lab tours with hands on experiments, competition "Quantum Future Award" (for excellent Master- and PhD-theses), final ceremony with c-level participants from science, industry and politics

2019:

- Binational Germany/France with four stations: Karlsruhe, Strasbourg, Saarbrücken and Paris-Saclay
- 30 participants from both countries (more than 130 applications)
- Nearly 40 speaker including c-level welcome notes (scientists, industry representatives and politicians)
- Intercultural full week program with team building, city tours, lab tours with hands on experiments, workshops, enterprise visits, networking/career events with industry and start-ups, scientific and industry talks with different QT-focus, political events
- Political barcamp (Strasbourg): Students discuss with political and scientific representatives
- Final Ceremony (Paris-Saclay) with c-level participants from science and politics

Poster & Flyer Quantum Future Academy 2019



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SKIT

Federal Ministry of Education and Research

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de Strasbourg

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You are a student of engineering or natural sciences? Apply for one of the limited places of the Quantum Future Academy in France and Germany until June 02nd, 2019!

Applied Quantum Technology: Get to know one of the most exciting topics of the future in practice!

Excursions to leading companies and institutes, lectures by renowned experts, insights into the current state of research and development, workshops and an exciting supporting program await you.

Application is open to students of a German or French University studying engineering or natural sciences. Take the opportunity to network with like-minded people and professionals!

Get further information and send your application to:

Germany: www.photonikforschung.de France: www.universite-paris-saclay.fr/quantum-academy

© Foto: P. Stroppa/CEA



< Quantum Future | Academy > - Creative minds wanted!

August 24th – 31st, 2019 in Karlsruhe, Saarbrücken, Strasbourg and Paris-Saclay

Apply now for one of the limited places! Discover the application potential of quantum technologies! Make new contacts for your future!

During the academy you will learn how to use quantum phenomena not just to improve existing – but also for developing completely new technologies.

You will receive a comprehensive overview of the diverse potential of quantum technologies and how these future technologies are in close interdisciplinary exchange with others scientific and technical subdisciplines.

Quantum technologies are not just (quantum) physics!

Young start-ups and established large companies are already investing in the immense application potential of quantum technologies. During the academy you will have the exclusive opportunity to expand your network in both research and in industry. Maybe the first cornerstones for your own innovation will already be laid in one of the exciting workshops.

Help to shape the future of the young field of quantum technologies now!

The Academy is a joint initiative of the German Federal Ministry of Education and Science Research (BMBF) and the French Ministry of Higher Education, Scientific Research and Innovation (MESR). The hosts of the Quantum Future Academy 2019 are the Karlsruhe Institute of Technology, the University Straburg, the University Saarbrücken and the University Paris-Scalay.

What to expect:

- Excursions to leading companies and institutes
- Lectures by experts in the field of Quantum technologies
- · Insight into the current state of research and development
- Start-Up Talks
- Innovation Coaching
- Discussions and networking
- · Social program with evening events

Who can participate?

- Students of engineering and natural sciences from a German or French university
- Bachelor and Master Students from the 5th semester onwards with basic knowledge of quantum mechanics

Information and application

Participation in the academy is free of charge. Travel expenses will be refunded (travel by train 2nd class, when using the car an equivalent train journey will be presumed).

Academy language and application in English. Additional information can be found under www.photonikforschung.de and www.universite-paris-saclay.fr/quantum-academy.

Application deadline: June 02nd, 2019

Application and questions to:

Germany: mail@quantum-futur.de France: www.universite-paris-saclay.fr/quantum-academy

Poster & Flyer Quantum Future Academy 2018





Bundesministerium für Bildung und Forschung

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Universität Stuttgart





Sie studieren Ingenieur- und Naturwissenschaften? Dann bewerben Sie sich bis zum 31. Januar 2018 für einen Platz in der Akademie!

Angewandte Quantentechnologie: Lernen Sie eines der spannendsten Zukunftsthemen in der Praxis kennen! Es erwarten Sie Exkursionen zu führenden Unternehmen und Instituten, Vorträge ausgewiesener Experten, Einblicke in den aktuellen Stand der Forschung und Entwicklung, Workshops sowie ein spannendes Rahmenprogramm.

Sie sind bereits Absolvent und haben eine Master- oder Promotionsarbeit zur anwendungsorientierten Quantentechnologie geschrieben? Dann bewerben Sie sich mit einer Kurzbewerbung bis zum

15. Januar um den Quantum Futur Award. Nutzen Sie die Gelegenheit zum Networking

mit Gleichgesinnten und Fachleuten!

www.photonikforschung.de

© Foto: Wolfram Scheible

Informationen und Bewerbungen unter



< Quantum Futur | Akademie > - Querdenker gesucht!

18. bis 23. März 2018 in Stuttgart und Ulm

Bewerben Sie sich jetzt für einen der begehrten Plätze!

Entdecken Sie das Anwendungspotential der Quantentechnologien! Knüpfen Sie neue Kontakte für Ihre Zukunft!

Während der Akademie erfahren Sie, wie die Nutzung von Quantenphänomenen nicht nur zur Verbesserung bestehender - sondern auch zur Entwicklung völlig neuer Technologien führen kann.

Sie erhalten dabei einen umfassenden Überblick über das vielfältige Potenzial der Quantentechnologien und wie diese Zukunftstechnologien in einem engen interdisziplinåren Austausch mit anderen naturwissenschaftlichen und technischen Teildisziplinen stehen. Quantentechnologien sind eben nicht nur (Quanten)Physik!

Junge Start-Ups und etablierte Großunternehmen investieren bereits in das immense Anwendungspotenzial der Quantentechnologien. Mit der Akademie haben Sie die exklusive Möglichkeit, Ihr Netzwerk sowohl in der Forschung als auch in der Industrie weiter auszubauen. Vielleicht werden die ersten Steine zur eigenen Innovation ja schon in einem der spannenden Workshops gelegt.

Gestalten Sie das junge Zukunftstechnologiefeld der Quantentechnologien jetzt mit!

Gastgeber 2018 sind das Bundesministerium für Bildung und Forschung (BMBF) und das Zentrum für Integrierte Ouantenwissenschaft und -technologie IQST Ulm und Stuttgart.

Das erwartet Sie

- Exkursionen zu führenden Unternehmen und Instituten
- Vorträge ausgewiesener Experten Einblick in den aktuellen Stand der Forschung und Entwicklung
- Start-Up Talk
- Innovation Coaching
- Diskussionen und Networking .
- Feierliche Vergabe des "Quantum Futur Awards"
- Rahmenprogramm mit Abendveranstaltungen

Wer kann teilnehmen

- · Studierende der Ingenieur- und Naturwissenschaften aus dem deutschsprachigen Raum
- Bachelor- und Masterstudenten ab dem 5. Fachsemester mit Grundwissen der Quantenmechanik

Infos und Bewerbung

Die Teilnahme an der Akademie ist kostenlos. Reisekosten werden übernommen (Reisen mit der Bahn 2. Klasse, bei Nutzung des PKW zählt äguivalente Bahnreise)

Die Bewerbung erfolgt ausschließlich online. Weitere Informationen finden Sie unter www.photonikforschung.de.

Bewerbungsschluss: 31. Januar 2018 Bewerbung und Rückfragen an: VDI Technologiezentrum GmbH Dr. Simone Wall Tel.: 0211 6214-593 E-Mail: mail@guantum-futur.de

@ Foto: Wolfram Scheible

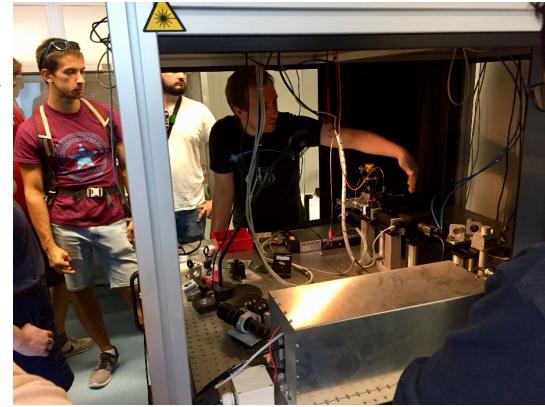


2019 participants in Strasbourg Photo: Nikolas Knake

Geocaching in Karlsruhe for fun and team building Photo: Nikolas Knake



Lab tour at Karlsruher Institut für Technologie (KIT) Photo: Nikolas Knake



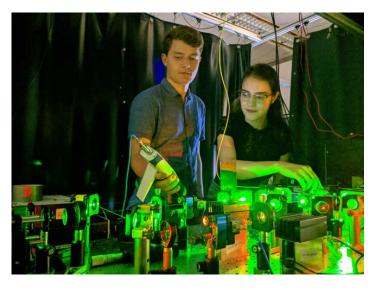


Visit at Centre de Nanosciences et de Nanotechnologies at Université Paris-Saclay Photo: C2N/Université Paris-Saclay



Design Thinking Workshop for Prototyping Photo: Max Riedel





Hands-on experiments Photo: Richard Gebauer



Political barcamp in Strasbourg Photos: Nikolas Knake/Martin Klindworth





Final ceremony in Paris-Saclay Photo: Universität Paris-Saclay/Caroline Bleux

Schedule 2019

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	24.8.	25.8.	26.8.	27.8.	28.08.	29.8.	30.8.	31.8.	
	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Торіс		Entrepreneurial thinking	Quantum technologies	Quantum sensing	Quantum computing	Quantum optics	Quantum imaging		
Morning	arrival	Workshop: Quantum goes Future: entrepreneurial thinking for scientist; communication tools for science and industry	Welcome and Overview on Quantum activities at KIT	University Straßburg: Welcome and scientific talks	Lectures at University Saarbrücken: quantum computer programming / quantum simulataon or quantum internet lab tours	travel to Paris / Saclay by train; Transfer by bus from Paris to Gif-sur-Yvette (45 min). Welcome and installation in the rooms.	by train; Lecture by Jacqueline Bloch or Pascale Bloch or Pascale Sénellart (45 min). Welcome and installation in the rooms. Lab visits C2N: Lecture by Jacqueline Bloch or Pascale Sénellart Meeting with the startup Qandela	optional city tour	
before noon			Scientific Talks and Start Ups						
noon			Lunch	Industry Talks: IBM, BASF	Lunch	Lunch in Gif (Castle)			
afternoon	Welcome event		Labtour	Lunch Special event: political barcamp and reception	Quantum tools industry / quantum computer user workshop with BSI, BMW etc.	SPEC visit Presentation of IQUPS Visits (nanoelectronic, quantronic, nanomagnetism)	Visit of Thales and IOGS	departure	
evening	town ralley / team building		travel to Straßburg			Visits of LPS	Keynote speech Alain Aspect		
night	dinner	Career Evening	city tour Straßburg by boat and dinner	Standing Dinner	founders evening with barbecue	Dinner in Chateau de Gif Poster Session with PhD students Talk with industry	Final ceremony: -Speech Sylvie Retailleau		
				travel to Saarbrücken by bus			-buffet, open to students, PhD and everyone involved in the academy		Cult
							Night in Paris (Tour on the Seine or other programme in Paris)		Polit Des
Location	Karlsruhe	Karlsruhe	Karlsruhe	Strasbourg	Saarbrücken	Paris	Paris	Paris	Scie

Culture und Dynamik Motivation und Inspire Political Event / Design Thinking Workshop

Participants' feedback

"Spending a week in such an environment definitely helped me to get out of my 'comfort zone'. I was able to shape my future goals in order to adapt to the needs of the society and the 'realistic' potential applications that quantum science has to offer."



Chintan, participant 2019

Participants' feedback



"It was interesting for me to see, how an abstract and theoretic field such as quantum physics can find application and be brought into future products."

Julia, participant 2019

Social Media Coverage

Quantentechnologien Students discussing the future of quantum

research and application with Dr. Schlie @BMBF Bund , Prof. Grangier @InstitutOptiquetand Prof. Ebbesen @unistra at Strasbourg City Hall #QuantumFutureAcademy2019 twitter.com/dimsirteg/stat ...

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Quantentechnologien

Recapitulating the implementation of #QuantumFutureAcademy2019 06:48 - 27, Aug. ; @OpenSuperQ @BMBF_Bund 5 Retweets 14 .0 @sup_recherche @KITKarlsruhe @unistra @UnivParisSaclay @DimSirteq twitter.com 0 13 :



02:30 - 28, Aug. 2019 6 Retweets 12 , Gefällt mir"-Angaben 🛛 🙌 🥥 🍈 🎒 🙆 🙆 🍏 Q1 126 012

French and German students from the #QuantumFutureAcademy2019 could hear aboat #epitaxy growth in the #cleanroom technology facility, quantum transport in 2D materials, quantum simulation with #polaritons, and about integrated #quantum circuits, during their visit at C2N.



Univ. Paris-Saclay the local design of the local set of the

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#QuantumFutureAcademv2019 A week between #France and #Germany to discover the different fields of applications #quantum technologies.

#storytelling #workshop #experiments #UPSaclay @BMBF_Bund @sup_recherche @KITKarlsruhe @unistra @Saar_Uni @UnivParisSaclay @DimSirteg



#QuantumFutureAcademy2019 at @InstitutOptique with @BMBF_Bund @sup_recherche @unistra @EU Commission @AllemagneDiplo

Opening of the final ceremony of the

univ. Paris-Saclay 😏

Al Inn Davis Carla

07:52 - 30. Aug. 2019

unter Univ. Paris-Saclay

difference"

08:18 - 30, Aug. 2019 1 "Gefällt mir"-Angabe

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"Let's share our experience, let's share our

knowledge, and I'm sure we can make a

- Dr. Thomas Skordas @EU_Commission

#QuantumFutureAcademy2019 #Qtum

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OpenSuperQ

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@OpenSuperQ and 2 "Gefällt mir"-Angaben 🛛 🕋 🔠

#OuantumFutureAcademv2019 were on German regional TV vesterday. See the clip (in German) with a short interview of Frank Wilhelm-Mauch @fwilhelm here: bit.ly



Great to be part of #quantumfutureacademy2019 - motivated students, exciting program.



08:22 -	25. Aug. 2019					
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