

Pan European Press Day

IBM Research Center Zurich

29/11/2019

Press Day Program	
8:30 (:10)	Arrival & Coffee
8:40 (:20)	Welcome & the Future of Computing Dr. Alessandro Curioni, IBM Fellow, VP, Europe and Director, IBM Research – Zurich
What is quantum computing?	
9:00 (:20)	Quantum Computing at IBM Dr. Heike Riel, IBM Fellow, Department Head Science & Technology IBM Research – Zurich
Applications for quantum computing	
9:20 (:20)	Quantum Finance and Risk Analysis with JP Morgan Chase Dr. Stefan Woerner, Global Leader, Quantum Finance & Optimization, IBM Research - Zurich
9:40 (:20)	Quantum Chemistry and Collaborating with CERN Dr. Ivano Tavernelli, Global Leader, Advanced Algorithms for Quantum Simulations, IBM Research - Zurich Dr. Panagiotis Barkoutsos, Researcher Quantum Computing, IBM Research - Zurich Dr. Federico Carminati, Chief Officer Innovation, CERN openlab

Security	
10:00 (:15)	Quantum Safe Cryptography & Quantum Safe Tape Dr. Vadim Lyubashevsky, Cryptographer, IBM Research - Zurich
10:15 (:15)	Speculator: CPU/Microarchitectural tool for analyzing speculative execution attacks (paper) Dr. Alessandro Sorniotti, Cryptographer, IBM Research - Zurich Andrea Mambretti, Security Researcher, IBM Research - Zurich
10:30 (:20)	Homomorphic encryption: Results of a Pilot Project with Bank Dr. Flavio Bergamaschi, Cryptography and Machine Learning, IBM Research - UK
10:50 (:25)	Crypto Anchors: connecting blockchain to physical objects (Exclusive) (Live Demo) Dr. Jens Jelitto, Blockchain Research, IBM Research - Zurich Thomas Weiss, CEO & Founder of Authentic Vision Dr. Steffen Scheibenstock, Head Digital Business Development, Tesa Scribos

Lab tours

**11:15
(:45)**

LAB TOURS

- Atom/Molecule Manipulation – Creating Cyclocarbon (C18)
- Quantum Computing Lab

*12:00
(:60)*

Lunch with a scientist

*13:00
(:30)*

*Coffee, Dessert & Quantum
Quantum Arcade*

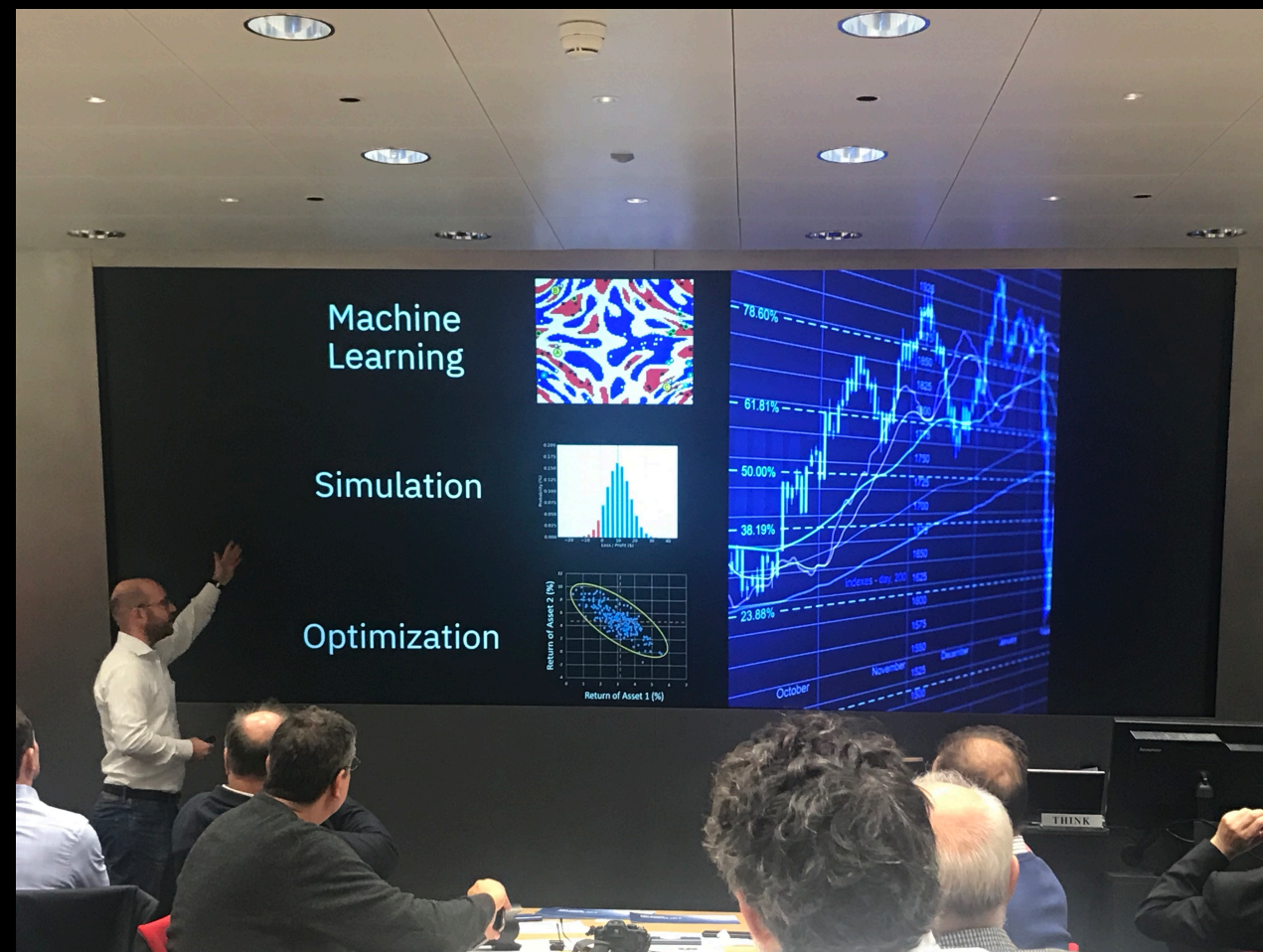
- *Play quantum video games with Dr. James Robin Wootton*
- *Learn how to program a quantum Computer with Dr. Panagiotis Barkoutsos*

Exploring AI – from healthcare to IoT	
13:30 (:20)	AI tools for cancer Mateo Manica, Cognitive Health Care and Life Sciences, IBM Research - Zurich
13:50 (:20)	RXN Retrosynthesis with RoboRXN, AI tool for chemical predictions Dr. Teodoro Laino, Principal Technical leader for Molecular Simulation, IBM Research - Zurich
14:10 (:20)	AI tools for healthcare: ICU-Cockpit for AI video-based monitoring system for epilepsy (Exclusive) Anca-Nicoleta Ciubotaru, Pre-doc researcher, IBM Research - Zurich Prof. Dr. med. Emanuela Keller, University Hospital Zurich
14:30 (:15)	<i>Glühwein & transition to outdoor demo</i>
14:45 (:45)	Using AI and IoT to Help Clients Manage and Monitor Aging Bridges, Tunnels, Highways (Live Demo) XXXXXXX, Sund & Bælt XXXXXXX, XXXXXXXX (Exclusive) Christiano Malossi, AI Researcher, IBM Research - Zurich Idan Ben-Harrush, Cloud and IoT Foundations, IBM Research - Haifa

15:45 (:30)	AI for the senses: Hypertaste & the Scent of Berlin Dr. Patrick Ruch, AI Engineer, IBM Research - Zurich Johanna Wende, Client Representative, IBM Global Markets
16:15 (:30)	Neuro-symbolic Computing (via video) Dr. David Cox, Director, MIT-IBM Watson AI Lab, IBM Research AI
16:45 (:10)	Closing remarks Chris Sciacca, Global Labs Communications Manager

Quantum Finance and Risk Analysis with JP Morgan Chase

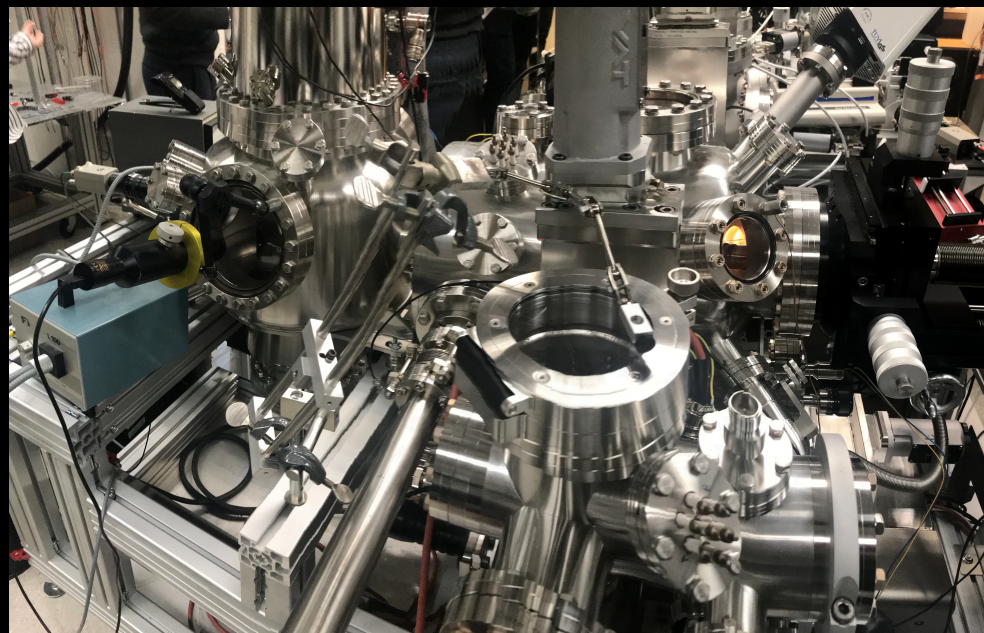
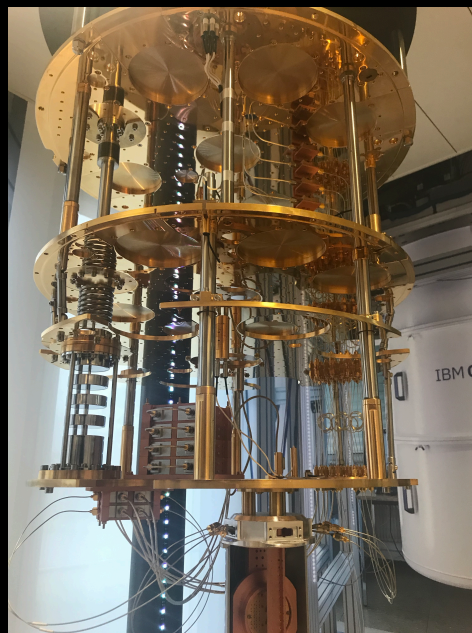
Dr. Stefan Woerner, Global Leader, Quantum Finance & Optimization, IBM Research - Zurich



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Using AI and IoT to Help Clients Manage and Monitor Aging Bridges, Tunnels, Highways (Live Demo)

XXXXXXX, Sund & Bælt

XXXXXXX, XXXXXXXX (Exclusive)

Christiano Malossi, AI Researcher, IBM Research - Zurich

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