



NATO Summer Training Program 2026

Dual-Use Quantum Technologies · IST-244

20-24th July

<https://natoquantumschool2026.cttc.es>

Session-level visual overview of the NATO STO Summer Training Program: Dual-Use Quantum Technologies (IST-244).

Time	Mon 20 Jul	Tue 21 Jul	Wed 22 Jul	Thu 23 Jul	Fri 24 Jul
09:00– 10:40		Dual-Use Relevance Joan Bas, Michal Krelina, Catarina Cabral Bastos, Yasser Omar	Space & Cybersecurity Lisa Wörner, Konrad Wrona, Marco Piani, Miguel Sempere Llorens	Quantum Technologies for Society Alex Artaud, Diederick Croese, Mira Lindsay Rand	Closing Session Joan Bas, Kadir Durak, Joanna Sliwa
11:00– 12:40		Research to Applications Kadir Durak, Gustavo Castro do Amaral, Joan Bas	Supporting Ecosystems Ágata F. Swiatkiewicz, Waseim Alfred, Anna B. Kalisz Hedegaard, Wolf-Bauwens	Strategies, Education & Assessment Simon Goorney, Zeki C. Seskir, Jan Aarts	Lab Visits
13:00– 14:00	Registration	Lunch	Lunch	Lunch	
14:00– 18:00	Opening / Keynotes / Reception Zeki C. Seskir, Joan Bas, Kadir Durak, Joanna Sliwa, Kaan Sahin, Tilly Driesenaar, Michele Mosca, Laurent Olislager	Experimental Tracks Quantum Optics Setups / Knowledge Security	Experimental Tracks Entanglement & Time Transfer / Strategic Intelligence	Experimental Tracks QKD / Quantum Diplomacy Game	

Tracks: Technical Track · Strategic Track



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NATO STO Summer Training Program: Dual-Use Quantum Technologies

20-24th July

20.07.2026 - Monday (First Day)

13:00 - 14:00 Registration

14:00 - 15:20 Opening Session

Chair: Zeki C. Seskir (Karlsruhe Institute of Technology)

Joan Bas (CTTC)

Kaan Sahin (NATO)

Kadir Durak (Qubitrium / Özyeğin University)

Joanna Sliwa (NCIA)

15:20 - 15:40 Short break

15:40 - 17:00 Welcome Speech and Keynotes

Chair: Kadir Durak (Qubitrium / Özyeğin University)

Tilly Driesenaar (Ministry of Defence)

Michele Mosca (IQC)

Laurent Olislager (European Commission)

17:40 - 20:00 Reception



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21.07.2026 - Tuesday (Second day)

09:00 - 10:40 Introduction to Dual-Use Relevance of Quantum Technologies

Chair: Joan Bas (CTTC)

Michal Krelina (QuDef / Qubitrium/ SIPRI)

Catarina Cabral Bastos (Indra Group)

Yasser Omar (PQI)

10:40 - 11:00 Short break

11:00 - 12:40 From Basic Research to Dual-Use Applications of QT

Chair: Catarina Cabral Bastos (Indra Group)

Kadir Durak (Qubitrium / Özyeğin University)

Gustavo Castro do Amaral (TNO)

Joan Bas (CTTC)

12:40 - 14:00 Lunch

14:00 - 18:00 Experimental Tracks

Technical Track: *Introduction to Quantum Optics Experimental Setups*

Kadir Durak (Qubitrium / Özyeğin University)

Utku Tefek (Qubitrium)

Alper Özülker (Qubitrium)

Sander Van Haagen (Qubitrium)

Strategic Track: *An Exercise on Knowledge Security Frameworks Implementation & Challenges*

Alex Artaud (TU Delft)

Michal Krelina (QuDef / Qubitrium/ SIPRI)





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22.07.2026 - Wednesday (Third day)

09:00 - 10:40 Applications of Quantum Technologies for Space & Cybersecurity

Chair: Kadir Durak (Qubitrium / Özyeğin University)

Lisa Wörner (DLR)

Konrad Wrona (NCIA)

Marco Piani (evolutionQ)

Miguel Sempere Llorens (Thales)

10:40 - 11:00 Short break

11:00 - 12:40 Dual-Use Quantum Technologies - Supporting Ecosystems

Chair: Simon Goorney (Aarhus University)

Ágata F. Swiatkiewicz (NATO STO CSO)

Waseim Alfred (TSI Panel)

Anna Beata Kalisz Hedegaard (QSECDEF / QuantumPrime)

Mira Wolf-Bauwens (GESDA)

12:40 - 14:00 Lunch

14:00 - 18:00 Experimental Tracks

Technical Track: *Entanglement Generation and Quantum Time Transfer*

Kadir Durak (Qubitrium / Özyeğin University)

Utku Tefek (Qubitrium)

Alper Özülker (Qubitrium)

Sander Van Haagen (Qubitrium)

Strategic Track: *Strategic Intelligence Generation and Utilization for Dual-Use of QT*

Simon Goorney (Aarhus University)

Zeki C. Seskir (Karlsruhe Institute of Technology)

Lindsay Rand (U.C. Berkeley Risk and Security Lab)





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23.07.2026 - Thursday (Fourth day)

09:00 - 10:40 Quantum Technologies for Society

Chair: Zeki C. Seskir (Karlsruhe Institute of Technology)

Alex Artaud (TU Delft)

Diederick Croese (Center for Quantum and Society / QDNL)

Lindsay Rand (U.C. Berkeley Risk and Security Lab)

10:40 - 11:00 Short break

11:00 - 12:40 National Strategies, Education, and Assessment of Quantum Technologies

Chair: Mira Wolf-Bauwens (GESDA)

Simon Goorney (Aarhus University)

Zeki C. Seskir (Karlsruhe Institute of Technology)

Jan Aarts (Leiden University / QDNL)

12:40 - 14:00 Lunch

14:00 - 18:00 Experimental Tracks

Technical Track: *Implementation of Quantum Key Distribution*

Kadir Durak (Qubitrium / Özyeğin University)

Utku Tefek (Qubitrium)

Alper Özülker (Qubitrium)

Sander Van Haagen (Qubitrium)

Strategic Track: *Quantum Diplomacy Game*

Mira Wolf-Bauwens (GESDA)





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24.07.2026 - Friday (Final day)

09:00 - 10:40 **Closing Session**

Chair: Zeki C. Seskir (Karlsruhe Institute of Technology)

Joan Bas (CTTC)

Kadir Durak (Qubitrium / Özyeğin University)

Joanna Sliwa (NCIA)

10:40 - 11:00 **Short break**

11:00 - 12:40 **Lab Visits**



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