

**Семинари по
високопроизводителни
пресмятания в Пловдив,
юни 2025**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Суперкомпютърни приложения върху ХЕМУС (Supercomputer Applications on HEMUS)

Contribution ID: 2

Type: **not specified**

Симулатори за квантови пресмятания (Quantum Computing Simulators)

Contribution ID: 3

Type: **not specified**

HPC infrastructure at IICT-BAS

Monday, 9 June 2025 10:00 (20 minutes)

Presenter: Prof. ATANASSOV, E.

Contribution ID: 4

Type: **not specified**

Specialized software instruments and tools installed on the HEMUS

Monday, 9 June 2025 10:20 (20 minutes)

Presenter: Prof. ATANASSOV, E.

Contribution ID: 5

Type: **not specified**

Optimal usage

Monday, 9 June 2025 10:40 (20 minutes)

Presenter: Prof. ATANASSOV, E.

Contribution ID: 6

Type: **not specified**

Quantum Programming Languages: Qiskit

Presenter: Prof. ATANASSOV, E.

Contribution ID: 7

Type: **not specified**

Demonstrations on HEMUS and discussion

Monday, 9 June 2025 11:00 (1 hour)

Presenter: S. YORDANOV, A. Kirilov,

Contribution ID: 8

Type: **not specified**

Introduction to Quantum Computing – short definition of Quantum Computing and presenting Key Concepts

Monday, 9 June 2025 13:00 (15 minutes)

Presenter: Prof. ATANASSOV, E.

Contribution ID: 9

Type: **not specified**

Quantum Computing Principles

Monday, 9 June 2025 13:15 (15 minutes)

Presenter: Prof. ATANASSOV, E.

Contribution ID: 10

Type: **not specified**

Basic Quantum Algorithms: Quantum Parallelism, Deutsch-Jozsa Algorithm, Grover's Algorithm, Shor's Algorithm

Monday, 9 June 2025 13:30 (15 minutes)

Presenter: Prof. ATANASSOV, E.

Contribution ID: **11**

Type: **not specified**

Demonstration and discussion

Monday, 9 June 2025 14:00 (1 hour)

Presenter: S. YORDANOV, A. Kirilov,

Contribution ID: 12

Type: **not specified**

Quantum Programming Languages: Qiskit

Monday, 9 June 2025 13:45 (15 minutes)

Presenter: Prof. ATANASSOV, E.