

2025 TCP - IF Winter School

Report of Contributions

Contribution ID: 35

Type: **not specified**

Quantum mechanics: very brief early history (e.g. blackbody radiation)

Monday 15 December 2025 09:00 (1h 15m)

Presenter: ██████████ (IF)

Contribution ID: 36

Type: **not specified**

Schrodinger equation. Infinite square well and energy quantisation

Monday 15 December 2025 10:45 (1h 15m)

Presenter: ██████████ (IF)

Contribution ID: 37

Type: **not specified**

Lunch

Monday 15 December 2025 12:00 (1h 15m)

Presenter:

Contribution ID: 38

Type: **not specified**

Wave function and probability interpretation

Monday 15 December 2025 13:15 (1h 15m)

Presenter: ██████████ (IF)

Contribution ID: 39

Type: **not specified**

Tutorial 1

Monday 15 December 2025 15:00 (1h 15m)

Presenter: / / (IF-TCP)

Contribution ID: **40**

Type: **not specified**

Discussion / Tutorial (Extra)

Monday 15 December 2025 16:15 (45 minutes)

Presenter:

Contribution ID: 41

Type: **not specified**

Quantum tunnelling 1

Tuesday 16 December 2025 09:00 (1h 15m)

Presenter: ████████ (IF)

Contribution ID: 42

Type: **not specified**

Quantum tunnelling 2

Tuesday 16 December 2025 10:45 (1h 15m)

Presenter: ████████ (IF)

Contribution ID: 43

Type: **not specified**

Lunch

Tuesday 16 December 2025 12:00 (1h 15m)

Presenter:

Contribution ID: 44

Type: **not specified**

Workshop: Simulation of quantum tunneling 1

Tuesday 16 December 2025 13:15 (1h 15m)

Presenter: ☒☒☒ (TCP)

Contribution ID: 45

Type: **not specified**

Tutorial ⅩⅩⅩⅩⅩⅩ 2

Tuesday 16 December 2025 15:00 (1h 15m)

Presenter: ⅩⅩⅩⅩⅩⅩ / ⅩⅩⅩⅩⅩⅩ / ⅩⅩⅩⅩⅩⅩ (IF-TCP)

Contribution ID: 46

Type: **not specified**

Discussion / Tutorial (Extra)

Tuesday 16 December 2025 16:15 (45 minutes)

Presenter:

Contribution ID: 47

Type: **not specified**

Superconductivity, Cooper Pairs, and zero resistance 1

Wednesday 17 December 2025 09:00 (1h 15m)

Presenter: XXXXX (TCP)

Contribution ID: 48

Type: **not specified**

Superconductivity, Cooper Pairs, and zero resistance 2

Wednesday 17 December 2025 10:45 (1h 15m)

Presenter: XXXXX (TCP)

Contribution ID: 49

Type: **not specified**

Lunch

Wednesday 17 December 2025 12:00 (1h 15m)

Presenter:

Contribution ID: 50

Type: **not specified**

Tutorial 3

Wednesday 17 December 2025 13:15 (1h 15m)

Presenter: , (TCP)

Contribution ID: 51

Type: **not specified**

Quantum 100 / Nobel

Wednesday 17 December 2025 15:00 (1h 15m)

Presenter: , , (IF-TCP)

Contribution ID: 52

Type: **not specified**

Discussion / Tutorial (Extra)

Wednesday 17 December 2025 16:15 (45 minutes)

Presenter:

Contribution ID: 53

Type: **not specified**

TCP party

Wednesday 17 December 2025 18:30 (1h 30m)

Presenter:

Contribution ID: 54

Type: **not specified**

Introduction to semiconductors.

Thursday 18 December 2025 09:00 (1h 15m)

Presenter: 〇〇〇〇 (TCP)

Contribution ID: 55

Type: **not specified**

Band gap as a potential barrier. the role of doping.

Thursday 18 December 2025 10:45 (1h 15m)

Presenter: XXXX (TCP)

Contribution ID: **56**

Type: **not specified**

Lunch

Thursday 18 December 2025 12:00 (1h 15m)

Presenter:

Contribution ID: 57

Type: **not specified**

Tunnelling Devices: Micro-Scale Technology 1 [Tunnel Diode, Lithography/Nano, STM/AFM]

Thursday 18 December 2025 13:15 (1h 15m)

Presenter: XXXXX (TCP)

Contribution ID: 58

Type: **not specified**

Workshop: computer simulation of quantum tunneling 2 [XXXXXXXXXXXXX]

Thursday 18 December 2025 15:00 (1h 15m)

Presenter: XXX / XXXX (TCP)

Contribution ID: 59

Type: **not specified**

Discussion / Tutorial (Extra)

Thursday 18 December 2025 16:15 (45 minutes)

Presenter:

Contribution ID: 60

Type: **not specified**

Tunnelling Devices: Micro-Scale Technology 2 [Tunnel Diode, Lithography/Nano, STM/AFM]

Friday 19 December 2025 09:00 (1h 15m)

Presenter: XXXXX (TCP)

Contribution ID: 61

Type: **not specified**

Tunnelling Devices: Micro-Scale Technology 3
[Tunnel Diode, Lithography/Nano, STM/AFM]
/

Friday 19 December 2025 10:45 (1h 15m)

Presenter:  (TCP)

Contribution ID: **62**

Type: **not specified**

Lunch

Friday 19 December 2025 12:00 (1h 15m)

Presenter:

Contribution ID: 63

Type: **not specified**

Josephson Junction 1

Friday 19 December 2025 13:15 (1h 15m)

Presenter: XXXXX (TCP)

Contribution ID: 64

Type: **not specified**

Tutorial 4

Friday 19 December 2025 15:00 (1h 15m)

Presenter: (TCP)

Contribution ID: 65

Type: **not specified**

(Unscheduled Slot)

Friday 19 December 2025 16:15 (45 minutes)

Presenter:

Contribution ID: 66

Type: **not specified**

Josephson Junction 2

Saturday 20 December 2025 09:00 (1h 15m)

Presenter: XXXXX (TCP)

Contribution ID: 67

Type: **not specified**

□□□□□ **"What exactly is quantum tunnelling?"**

Saturday 20 December 2025 10:45 (1h 15m)

Presenter: □□□□□□□, □□□□□□□, □□□□□□□ (TCP)

Contribution ID: **68**

Type: **not specified**

Lunch

Saturday 20 December 2025 12:00 (1h 15m)

Presenter: