

Graduate School on
“ISAPP2025: Gravitational Waves: From Theory to Detection”

July 7 - 18, 2025

organized by

**Oliver Hahn (U of Vienna), Gianluca Inguglia (HEPHY Vienna), Josef Pradler (U of Vienna),
Jochen Schieck (HEPHY and TU Vienna), Glenn van de Ven (U of Vienna)**

- **Monday, July 7th, 2025**

12:00 – 13:30 **Registration**

13:30 – 14:50 **Clifford M. Will (U of Florida, Gainesville)**

Introduction to Gravitational Waves, Lecture 1

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Clifford M. Will (U of Florida, Gainesville)**

Introduction to Gravitational Waves, Lecture 2

- **Tuesday, July 8th, 2025**

09:00 – 10:20 **Zoltan Haiman (ISTA, Klosterneuburg)**

Multimessenger Astronomy, Lecture 1

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Jessica Steinlechner (U of Maastricht)**

Gravitational Wave Detectors, Lecture 1

12:10 – 13:30 **Lunch Break**

13:30 – 14:50 **Clifford M. Will (U of Florida, Gainesville)**

Exercises: Introduction to Gravitational Waves

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Jessica Steinlechner (U of Maastricht)**

Exercises: Gravitational Wave Detectors

- **Wednesday, July 9th, 2025**

09:00 – 10:20 **Zoltan Haiman (ISTA, Klosterneuburg)**

Multimessenger Astronomy, Lecture 2

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Jessica Steinlechner (U of Maastricht)**

Gravitational Wave Detectors, Lecture 2

12:10 – 13:30 **Lunch Break**

13:30 – 14:50 **Jessica Steinlechner (U of Maastricht)**

Exercises: Gravitational Wave Detectors

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Poster Session**

- **Thursday, July 10th, 2025**

09:00 – 10:20 **Elena Cuoco (U Bologna)**

Data Analysis and Signal Processing, Lecture 1

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Lijing Shao (KAVLI Peking U)**

Tests of General Relativity, Lecture 1

12:10 – 13:30 **Lunch Break**

13:30 – 14:50 **Elena Cuoco (U Bologna)**

Exercises: Data Analysis and Signal Processing

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Ulyana Dupletsa (HEPHY Vienna)**

Exercises

- **Friday, July 11th, 2025**

09:00 – 10:20 **Elena Cuoco (U Bologna)**

Data Analysis and Signal Processing, Lecture 2

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Lijing Shao (KAVLI Peking U)**

Tests of General Relativity, Lecture 2

12:10 – 13:30 **Lunch Break**

13:30 – 14:50 **Elena Cuoco (U Bologna)**

Exercises: Data Analysis and Signal Processing

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Lijing Shao (KAVLI Peking U)**

Exercises: Tests of General Relativity

- **Monday, July 14th, 2025**

09:00 – 10:20 **Angelo Ricciardone (U of Pisa)**

Gravitational Wave Cosmology, Lecture 1

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Tania Regimbau (LAPP Annecy)**

Stochastic Gravitational Wave Background, Lecture 1

12:10 – 13:30 **Lunch Break**

13:30 – 14:50 **Angelo Ricciardone (U of Pisa)**

Exercises: Gravitational Wave Cosmology

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Tania Regimbau (LAPP Annecy)**

Exercises: Stochastic Gravitational Wave Background

18:00 – 21:00 **Social Dinner**

at Plachuttas Grünsplan

- **Tuesday, July 15th, 2025**

09:00 – 10:20 **Angelo Ricciardone (U of Pisa)**

Gravitational Wave Cosmology, Lecture 2

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Tania Regimbau (LAPP Annecy)**
Stochastic Gravitational Wave Background, Lecture 2

12:10 – 13:30 **Lunch Break**

13:30 – 14:50 **Angelo Ricciardone (U of Pisa)**
Exercises: Gravitational Wave Cosmology

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Tania Regimbau (LAPP Annecy)**
Exercises: Stochastic Gravitational Wave Background

- **Wednesday, July 16th, 2025**

09:00 – 10:20 **Michela Mapelli (U Heidelberg)**
Sources of Gravitational Waves, Lecture 1

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Jan Harms (Gran Sasso Science Institute, L'Aquila)**
Quantum Sensing in Gravitational Wave Detection, Lecture 1

12:10 – 13:30 **Lunch Break**

13:30 – 14:50 **Michela Mapelli (U Heidelberg)**
Exercises: Sources of Gravitational Wave

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Jan Harms (Gran Sasso Science Institute, L'Aquila)**
Exercises: Quantum Sensing in Gravitational Wave Detection

- **Thursday, July 17th, 2025**

09:00 – 10:20 **Michela Mapelli (U Heidelberg)**
Sources of Gravitational Waves, Lecture 2

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Jan Harms (Gran Sasso Science Institute, L'Aquila)**
Quantum Sensing in Gravitational Wave Detection, Lecture 2

12:10 – 13:30 **Lunch Break**

13:30 – 14:50 **Michela Mapelli (U Heidelberg)**
Exercises: Sources of Gravitational Wave

14:50 – 15:20 **Coffee Break**

15:20 – 16:40 **Jan Harms (Gran Sasso Science Institute, L'Aquila)**
Exercises: Quantum Sensing in Gravitational Wave Detection

- **Friday, July 18th, 2025**

09:00 – 10:20 **Costantino Pacilio (U Milano-Bicocca)**
Gravitational Wave Probes of Fundamental Physics

10:20 – 10:50 **Coffee Break**

10:50 – 12:10 **Gideon Koekoek (U of Maastricht)**
Public Outreach and Education

12:10 – 13:30 **Lunch Break**

All talks take place at ESI Boltzmann Lecture Hall!