



INFO FOLDER DISCRETE 2018

SYMPOSIUM ON PROSPECTS IN THE
PHYSICS OF DISCRETE SYMMETRIES

26-30 NOVEMBER 2018



DISCRETE 2018

SYMPOSIUM ON PROSPECTS IN THE PHYSICS OF DISCRETE SYMMETRIES

26-30 NOVEMBER 2018

ORGANIZERS

E. WIDMANN (CHAIR), J. MARTON (CO-CHAIR),
A. PICHLER, M. SIMON, D. J. MURTAGH

Imprint:

Media owner, editor, responsibility for contents and editing:

Stefan Meyer Institute for subatomic Physics
Austrian Academy of Sciences
Boltzmannngasse 3, 1090 Vienna

ÖAW

AUSTRIAN
ACADEMY OF
SCIENCES



CONTENT

GENERAL INFORMATION 6

| | |
|-------------------------------------|----|
| Conference Website | 6 |
| Venue..... | 6 |
| Local Contact | 6 |
| Registration/Information Desk | 6 |
| Internet | 6 |
| Coffee Breaks..... | 7 |
| Sponsors..... | 7 |
| How to find an ATM | 8 |
| How to find places for lunch..... | 10 |
| VCES | 12 |
| Oral Presentations | 13 |
| Conference Dinner..... | 13 |

PUBLIC EVENING TALK 16

PROGRAM OVERVIEW 18

DEAR PARTICIPANT, DEAR COLLEAGUE!

Welcome to the International Conference on Prospects in the Physics of Discrete Symmetries - DISCRETE2018.

DISCRETE2018 is the 6th meeting of the DISCRETE conference series. Since the first meeting in 2008 interest in this meeting is unabated and we are happy to see so many of you coming this year to Vienna to discuss aspects of discrete symmetries and related topics.

We believe we have been able again to put together an attractive scientific program. The timetable is densely packed with interesting contributions and includes plenary sessions and parallel sessions. Together with the venue which is located in the center of Vienna and the social events rounding off the conference program we wish to provide a setting for animated and fruitful discussions.

We hope you will have a pleasant stay in Vienna.

The local organizing committee:

E. Widmann (Chair), J. Marton (Co-Chair),

A. Pichler, M. Simon, D. J. Murtagh

GENERAL INFORMATION

CONFERENCE WEBSITE

www.discrete2018.at

VENUE

The conference takes place at the Austrian Academy of Sciences, Festsaal
Dr. Ignaz Seipel-Platz 2, 1010 Vienna, Austria

Parallel Sessions

Austrian Academy of Sciences
Festsaal, Sitzungssaal and Johannessaal, 1st floor
Dr. Ignaz Seipel-Platz 2, 1010 Vienna, Austria

LOCAL CONTACT

A. Pichler (Scientific Secretary)
discrete2018@oeaw.ac.at

J. Matejka (Secretary)
Julia.matejka@oeaw.ac.at
mobile: +43 (0)664 / 6127209

REGISTRATION/INFORMATION DESK

The registration and information desk is located at the ground floor of the Venue Building at the Clubraum.

Mon: 08:00 – 12:30, 13:30 – 16:15
Tue: 08:00 – 12:30, 13:30 – 16:00
Wed: 08:30 – 12:30, 13:30 – 16:30
Thu: 08:30 – 12:30, 13:30 – 16:30
Fri: 08:00 – 12:30, 13:30 – 16:15

INTERNET

Within the building of the OEAW the internet can be accessed via the eduroam and guest networks.
Please ask at the registration desk for the guest password.

COFFEE BREAKS

The coffee breaks take place at the aula on the ground floor of the Venue Building.

SPONSORS

DK-PI Doktoratskolleg Particles and Interactions
www.dkpi.at



FWF

Der Wissenschaftsfonds.
[Project W1252-N27]

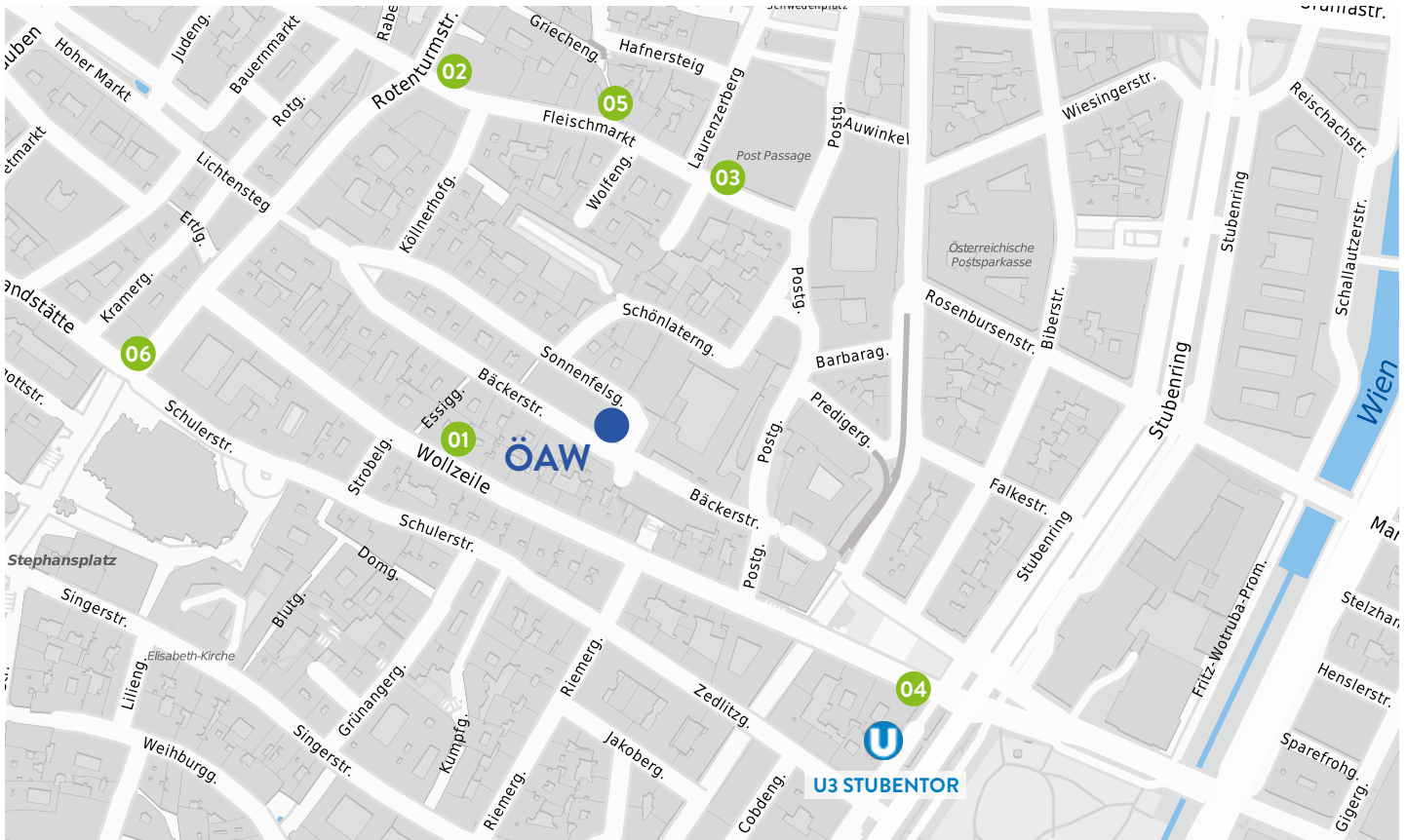
L+H Vakuum Technik
www.lhvakuum.at



World Scientific Publishing Co. Pte. Ltd.
www.worldscientific.com



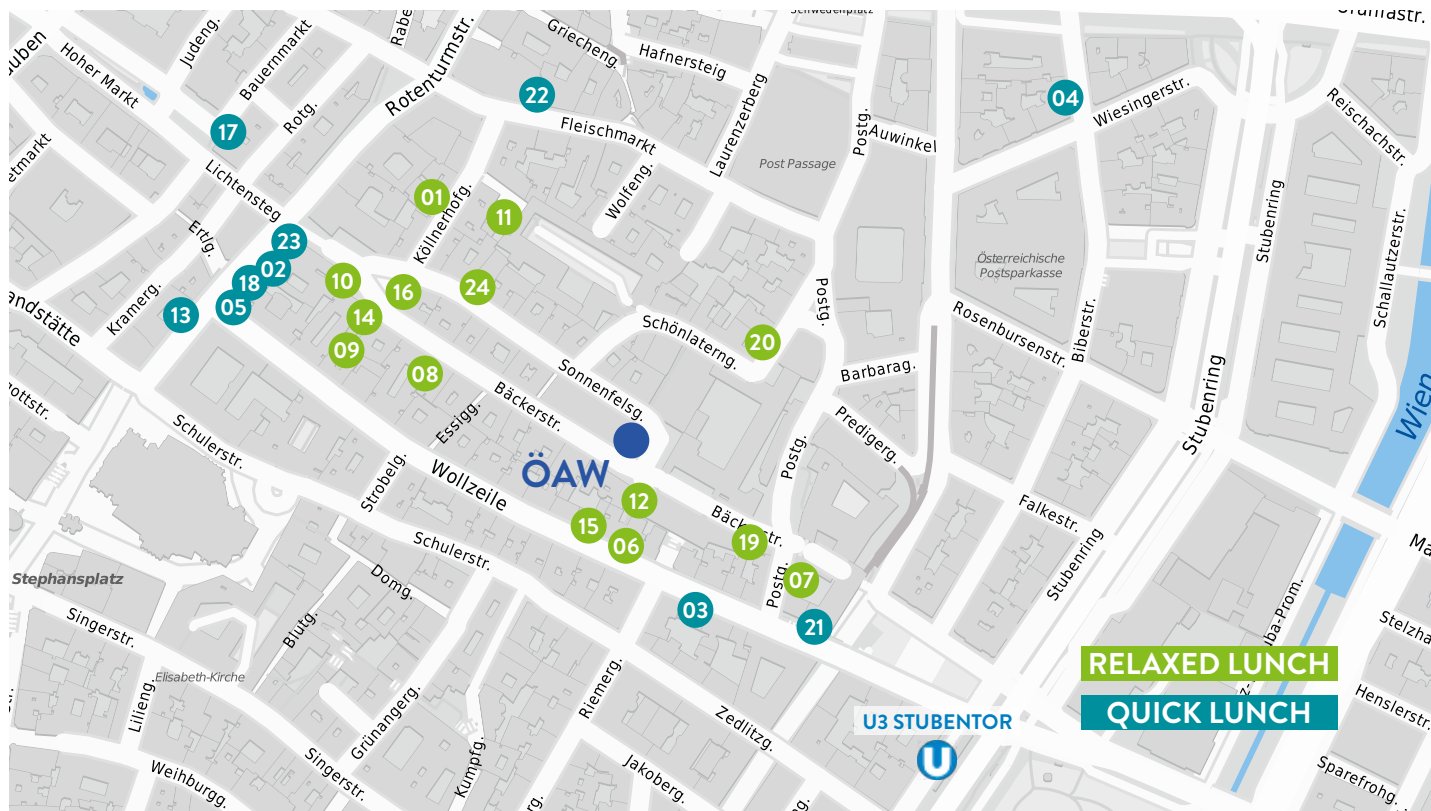
HOW TO FIND AN ATM



- 01 Austrian Anadi Bank
- 02 Deutsche Bank AG
- 03 Österreichische Post
- 04 Spar Markt
- 05 Spar Markt
- 06 UniCredit Bank Austria AG

- Wollzeile 19
- Fleischmarkt 1
- Fleischmarkt 19
- Parkring 2
- Fleischmarkt 5
- Stephansplatz 7A

HOW TO FIND PLACES FOR LUNCH



- | | | | |
|-----------------------------------|-------------------|-------------------------------------|---------------------|
| 01 Achilleus (Greek) | Köllnerhofgasse 3 | 13 Japanika (Asian) | Rotenturmstraße 11 |
| 02 Akakiko (Asian) | Rotenturmstraße 6 | 14 Labstelle (Viennese, Internat.) | Lugeck 6 |
| 03 Ankerbrot (Bakery) | Wollzeile 30 | 15 Levante (Mediterranean, Italian) | Wollzeile 19 |
| 04 Billa (Supermarket) | Biberstraße 15 | 16 Lugeck (Viennese, Internat.) | Lugeck 4 |
| 05 Pizza Bizi (Italian) | Rotenturmstraße 4 | 17 Merkur Markt (Supermarket) | Hoher Markt 12 |
| 06 Ouzeri Bistro Ellas (Greek) | Wollzeile 21 | 18 Nordsee (Fish) | Rotenturmstraße 4 |
| 07 Café Engländer (Viennese) | Postgasse 2 | 19 Gasthaus Pfudl (Viennese) | Bäckerstraße 22 |
| 08 Figlmüller (Viennese) | Bäckerstraße 6 | 20 Ristorante Rossini (Italian) | Schönlaterngasse 11 |
| 09 Figlmüller (Viennese) | Wollzeile 5 | 21 Spar Markt (Supermarket) | Wollzeile 39 |
| 10 Restaurant Gutenber (Viennese) | Lugeck 7 | 22 Spar Markt (Supermarket) | Fleischmarkt 5 |
| 11 Heindis Schmarren (Viennese) | Grashofgasse 4 | 23 Ströck Brot (Bakery) | Rotenturmstraße 6 |
| 12 Inigo (Viennese) | Bäckerstraße 18 | 24 Zwölf Apostelkeller (Viennese) | Sonnenfelsgasse 3 |

VCES

On Friday, the 30. November the DISCRETE2018 will take place together with the 14th Vienna Central European Seminar on Particle Physics and Quantum Field Theory (VCES). The topic of this iteration of the seminar are "Global and Local Symmetries". The VCES lasts 2 days, which take place on:

Friday, 30. November 2018:

Festsaal, Austrian Academy of Sciences
Dr. Ignaz Seipel-Platz 2, 1010 Vienna

Saturday, 1. December 2018:

TUtheSKY, TU Wien
Getreidemarkt 9, 1060 Vienna

With the registration to DISCRETE2018 you can join the VCES for free and you are automatically registered for the common day of DISCRETE2018 and VCES (Friday). If you want to join the VCES on Saturday, you have to register on the site of the conference on Friday or via the VCES Indico website (see below).

For more information about the VCES and to see the timetable of DISCRETE2018 for Friday, 30. November, please consult the Indico website:

<https://indico.cern.ch/event/712873/overview>

or get in contact with the organizers via:
vc2018@oeaw.ac.at

ORAL PRESENTATIONS

Please arrive at your session 15 minutes early to set up and introduce yourself to the Session Chair. As we have a tight schedule, please make sure to keep your time.

All rooms are equipped with a laptop and projector. Please upload your presentation on indico in advance or bring it with you on a USB stick.

CONFERENCE DINNER

The conference dinner will take place on 27. November at 19:00 at the restaurant "Wiener Rathauskeller".

For participants of the conference and their accompanying persons the dinner costs EUR 50.- per person. We kindly ask to pay the amount at the information desk in advance.

Restaurant "Wiener Rathauskeller"
Rathausplatz 1, A-1010 Wien
T: +43 (0)1 405 12 10

www.wiener-rathauskeller.at



Photo: Restaurant "Wiener Rathauskeller"

Travel to the Dinner

Starting at the conference site (ÖAW) you can reach the restaurant by public transport or by a nice walk across the first district. The restaurant is located in the same building as the town hall. You can find the entrance on the right hand side of the building.

Public Transport

Walk to the subway station Stubentor and take subway line U3 from Stubentor to Volkstheater (direction Ottakring). Leave the train at stop Volkstheater and use the left exit in direction to "Ring" (Dr.-Karl-Renner-Ring).

Walk along the "Ring", following the direction of the passing cars, past the parliament until you see the townhall on your left side or take the tram number 1, 71 or D (not 2) for two stations.

The whole journey will take around 15 minutes with public transport and 25 minutes by walk.

Christmas Market

In front of the townhall, there is one of the largest Christmas markets of Vienna. If you want to enjoy the market, please schedule some time to visit it.



Source: OpenStreetMap

PUBLIC EVENING TALK

MALCOLM J. PERRY

Cambridge University
Co-Author of Stephen Hawking's last publication


**"BLACK HOLES, FUNDAMENTAL PHYSICS AND THE
INFORMATION PARADOX"**

30. November 2018
18:00 – 19:30

Festsaal
Austrian Academy of Sciences
Dr. Ignaz Seipel-Platz 2
1010 Vienna










PROGRAM OVERVIEW

| Time | Sunday 25.11. | Monday 26.11. | Tuesday 27.11. |
|-------|-----------------------|-------------------------|---|
| 9:00 | | | |
| 9:30 | | | |
| 10:00 | | 9:00-10:45 Plenary | 9:00-10:45 Plenary |
| 10:30 | | 10:45-11:15 Coffee | 10:45-11:15 Coffee |
| 11:00 | | | |
| 11:30 | | 11:15-12:25 Plenary | 11:15-12:25 Plenary |
| 12:00 | | | |
| 12:30 | | | |
| 13:00 | | 12:25-14:00 Lunch Break | 12:25-13:30  Lunch Break |
| 13:30 | | | |
| 14:00 | | | |
| 14:30 | | 14:00-16:20 Plenary | 13:30-15:35 05 02 04 |
| 15:00 | | | |
| 15:30 | | | |
| 16:00 | | 16:20-16:45 Coffee | 15:35-16:00 Coffee |
| 16:30 | | | 16:00-16:50 05 02 06 |
| 17:00 | 16:30-18:30 Reception | | |
| 17:30 | | 16:45-18:50 10 01 08 | |
| 18:00 | | | |
| 18:30 | | | |
| 19:00 | | | |
| 19:30 | | | |
| 20:00 | | | 19:00-22:00 Conference Dinner |
| 21:00 | | | |
| 22:00 | | | |

| Time | Wednesday 28.11. | Thursday 29.11. | Friday 30.11. |
|-------|-------------------------|-------------------------|------------------|
| 9:00 | | | |
| 9:30 | | | |
| 10:00 | 9:00-10:45 Plenary | 9:00-10:45 Plenary | Plenary |
| 10:30 | 10:45-11:15 Coffee | 10:45-11:15 Coffee | Coffee |
| 11:00 | | | |
| 11:30 | 11:15-12:25 Plenary | 11:15-12:25 Plenary | Plenary |
| 12:00 | | | |
| 12:30 | | | |
| 13:00 | 12:25-14:00 Lunch Break | 12:25-14:00 Lunch Break | Lunch Break |
| 13:30 | | | |
| 14:00 | | | |
| 14:30 | 14:00-16:05 06 08 01 | 14:00-16:05 09 04 07 | Plenary |
| 15:00 | | | Coffee |
| 15:30 | | | |
| 16:00 | 16:05-16:30 Coffee | 16:05-16:30 Coffee | Plenary |
| 16:30 | | | |
| 17:00 | 16:30-18:35 06 08 10 | 16:30-17:50 09 04 07 | |
| 17:30 | | | |
| 18:00 | | | |
| 18:30 | | | Public Talk |
| 19:00 | | | |
| 19:30 | | | |
| 20:00 | | | |
| 21:00 | | | |
| 22:00 | | | |

LOCATION

| | |
|--|--|
|  | Reception (SMI, Boltzmanngasse 3, 1090 Vienna) |
|  | Festsaal |
|  | Sitzungssaal |
|  | Johannessaal |
|  | Conference Dinner |
|  | VCES + DISCRETE2018 |
|  | Public Talk |



Conference Photo

TOPICS

- 01 T, C, P, CP and CPT symmetries
- 02 Emergence of symmetries from entanglement
- 03 **Discrete symmetries in cosmology together with VCES on Friday 30.11.**
- 04 Neutrino masses, mixing and discrete symmetries
- 05 Discrete symmetries and models of flavour mixing
- 06 Supersymmetry
- 07 Strings, branes, extra dimensions and discrete symmetries
- 08 New results from LHC, new facilities
- 09 PT symmetric Hamiltonians
- 10 Multimessenger probes of the universe

Although every effort has been made to ensure the information in this booklet is correct, last minute changes are always possible.

Please check the conference websites for program details, abstracts and the most up-to-date information:

<https://indico.cern.ch/event/732911/>
www.discrete2018.at



ÖAW

WWW.OEAW.AC.AT