

Welcome

To the Workshop on the tuning
of hadronic interaction models

LOC:

Karl-Heinz Kampert

Hans Dembinski

Chloé Gaudu

Johannes Albrecht

Kevin Kröninger

Supported by the
Collaborative Research
Cluster SFB 1491





University Wuppertal

Students	21.500
Employees	4.000
Professors	277
Faculties / schools	9 / 31
Degree courses	113
Research Institutes	45



Main Campi of University Wuppertal



1 Campus Griffenberg
 Gaußstr. 20, 42119 Wuppertal
 Tel.: 0202/439-0

Bildungs- und Sozialwissenschaften
 Geistes- und Kulturwissenschaften
 Kommunikationsdesign, Industrial Design, Gestaltungstechnik, Kunst
 Maschinenbau, Sicherheitstechnik,
 Naturwissenschaften und Mathematik
 Wirtschaftswissenschaft

Allgemeiner Studierendenausschuss (AStA)
 BergWerk
 Careers Service
 Hochschul-Sozialwerk Wuppertal (HSW)
 Hochschulsport
 Hochschulverwaltung
 International Center
 Internationales Studierendensekretariat
 Pressestelle
 Rektorat
 Sprachlehrinstitut (SLI)
 Studierendensekretariat / ServiceCenter
 Universitätsbibliothek
 Wissenschaftstransferstelle
 Zentrale Studienberatung (ZSB)
 Zentrum für Information- und Medienverarbeitung (ZIM)

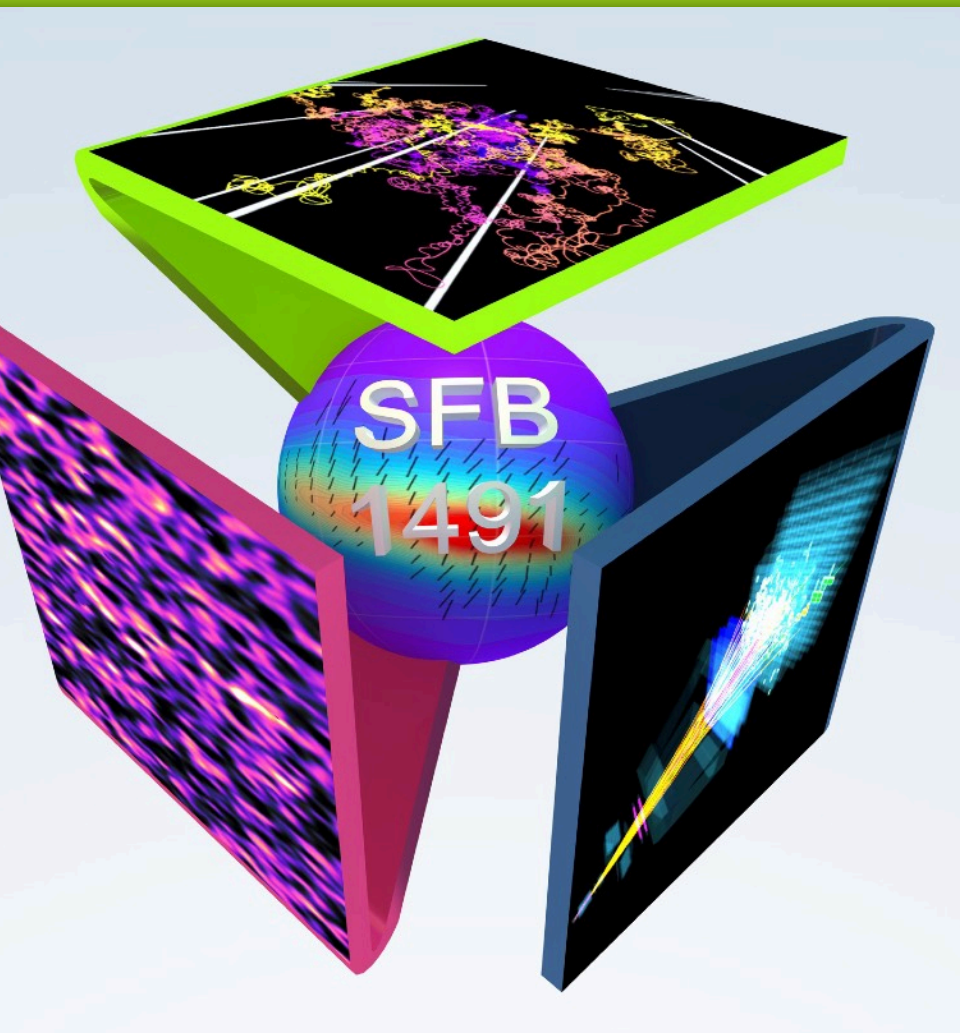
2 Campus Haspel
 Pauluskirchstraße 7, 42285 Wuppertal

Architektur
 Bauingenieurwesen
 Außenstelle der Mensa,
 Außenstelle der Universitätsbibliothek,
 Außenstelle Zentrales Prüfungsamt

3 Campus Freudenberg
 Rainer-Gruenter-Straße, 42119 Wuppertal

Elektrotechnik,
 Informationstechnik,
 Druck- und Medientechnik
 Außenstelle der Mensa, Außenstelle der
 Universitätsbibliothek, Gästehaus,
 Universitätsarchiv
 Außenstelle Zentrales Prüfungsamt



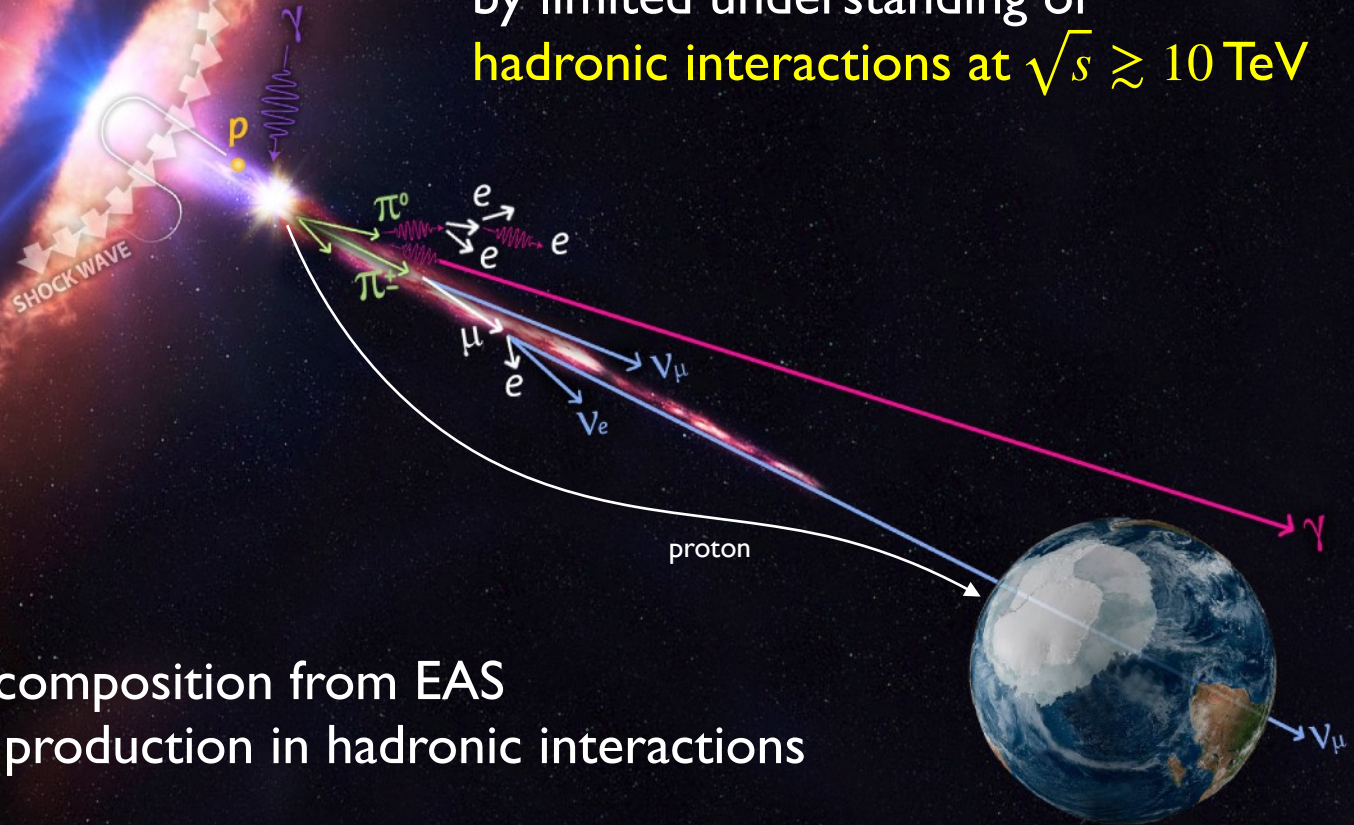


BERGISCHE
UNIVERSITÄT
WUPPERTAL

SFB 1491: Cosmic Interacting Matters – From Source to Signal

Ruhr Universität Bochum
Technical University Dortmund
Bergische Universität Wuppertal
Universität Duisburg-Essen

Answering the key question about the origin of UHECR largely hampered by limited understanding of hadronic interactions at $\sqrt{s} \gtrsim 10 \text{ TeV}$



Challenges:

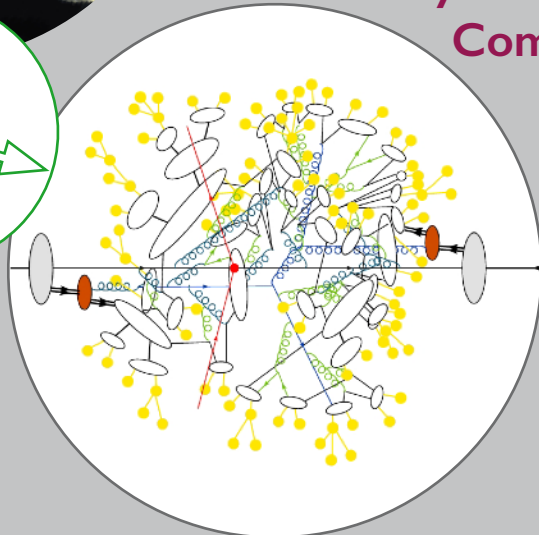
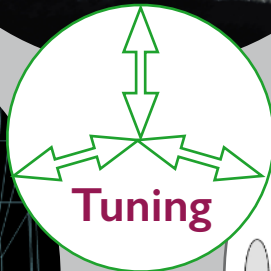
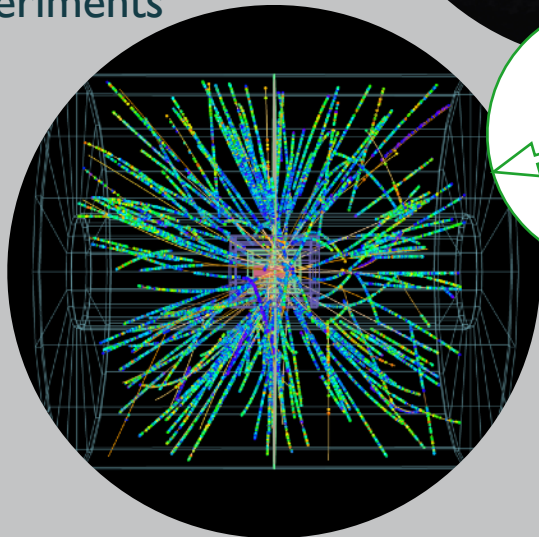
- Infer CR mass composition from EAS
- Prompt lepton production in hadronic interactions

Aim of this workshop:
Bring together communities
to start concerted efforts



Astroparticle Community:
Extensive Air Shower Observations

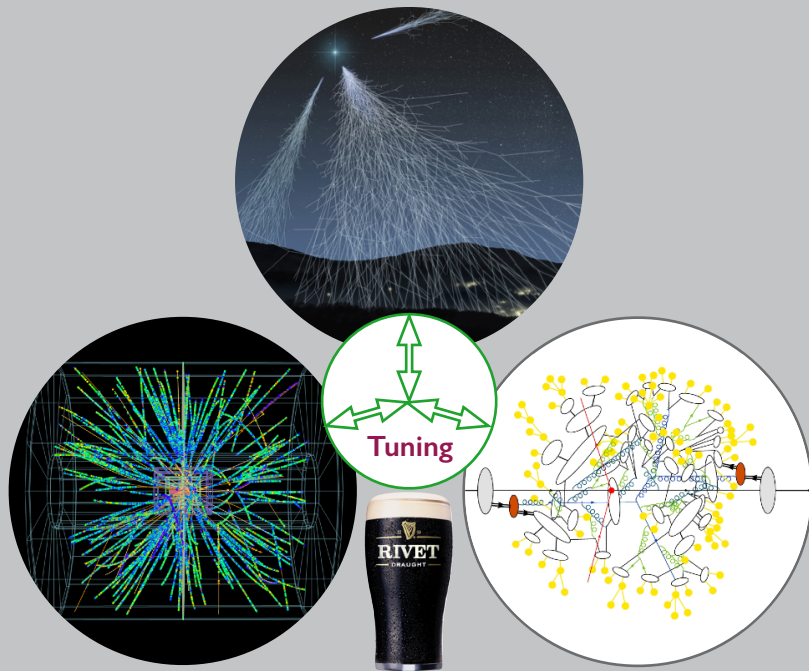
Particle Physics Community:
Accelerator Experiments



Theory / Event Generator Community

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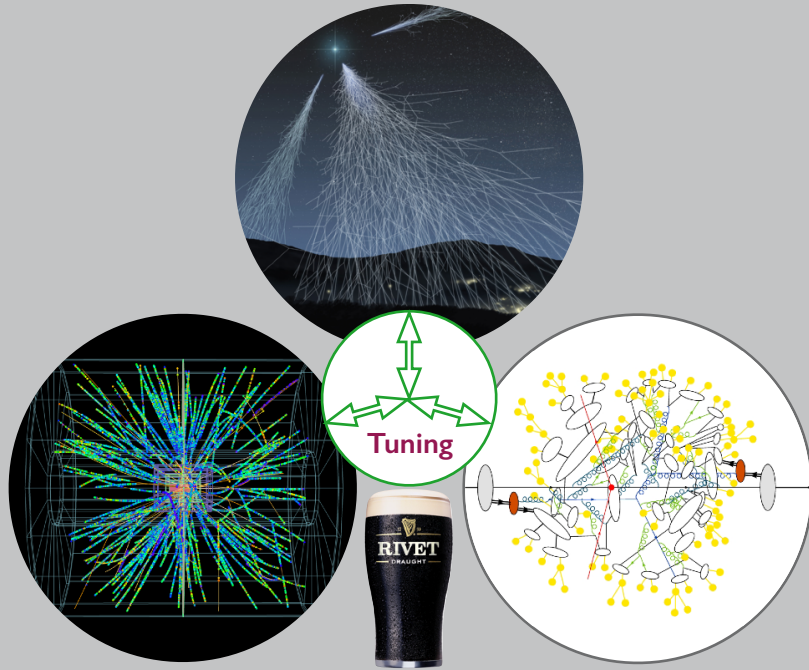


Mon 22/01 [Go back](#) | [Print](#)

14:00	Welcome <i>Guesthouse, Campus Freudenberg, University Wuppertal</i>	<i>Karl-Heinz Kampert</i> 14:00 - 14:10
	Tuning of event generators with accelerator and astroparticle experiments <i>Guesthouse, Campus Freudenberg, University Wuppertal</i>	<i>Hans Dembinski</i> 14:10 - 14:40
15:00	Generators & Theory <i>Guesthouse, Campus Freudenberg, University Wuppertal</i>	14:45 - 16:00
16:00	Coffee break <i>Guesthouse, Campus Freudenberg, University Wuppertal</i>	16:00 - 16:30
17:00	Accelerator input <i>Guesthouse, Campus Freudenberg, University Wuppertal</i>	16:30 - 18:00
18:00		

Program organised in **topical blocks**
with extended discussion after each
session

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Convenors for each topic

Plan:

Write a „**white paper**“ about the problem and how to address the common tuning and assess the global agreement of models with particle physics and astroparticle data. To be authored by participants of workshop and published in a Journal.

Some Practical Information

- **Lunch**

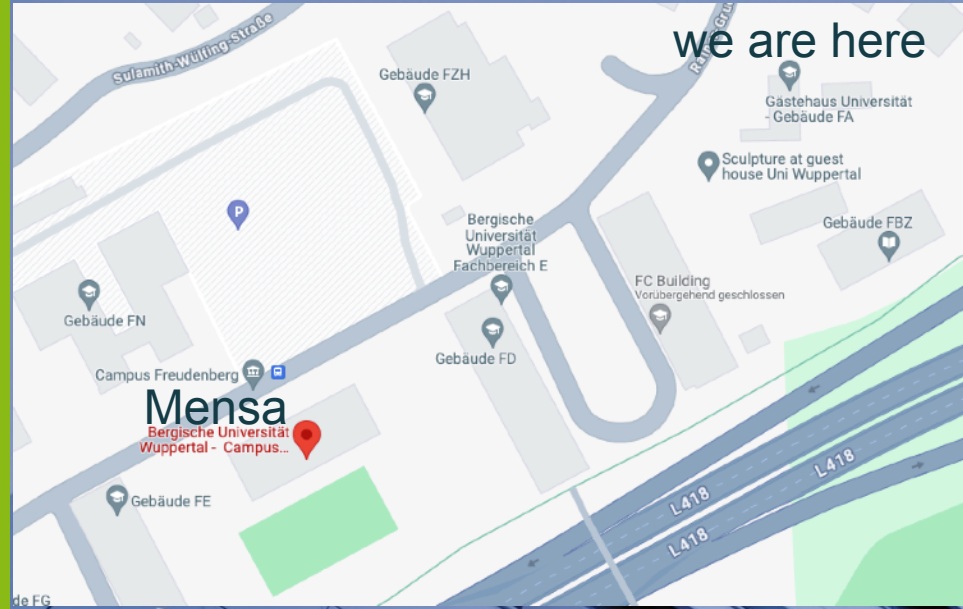
Mensa/Cafeteria
across from the bus stop
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credit or debit card

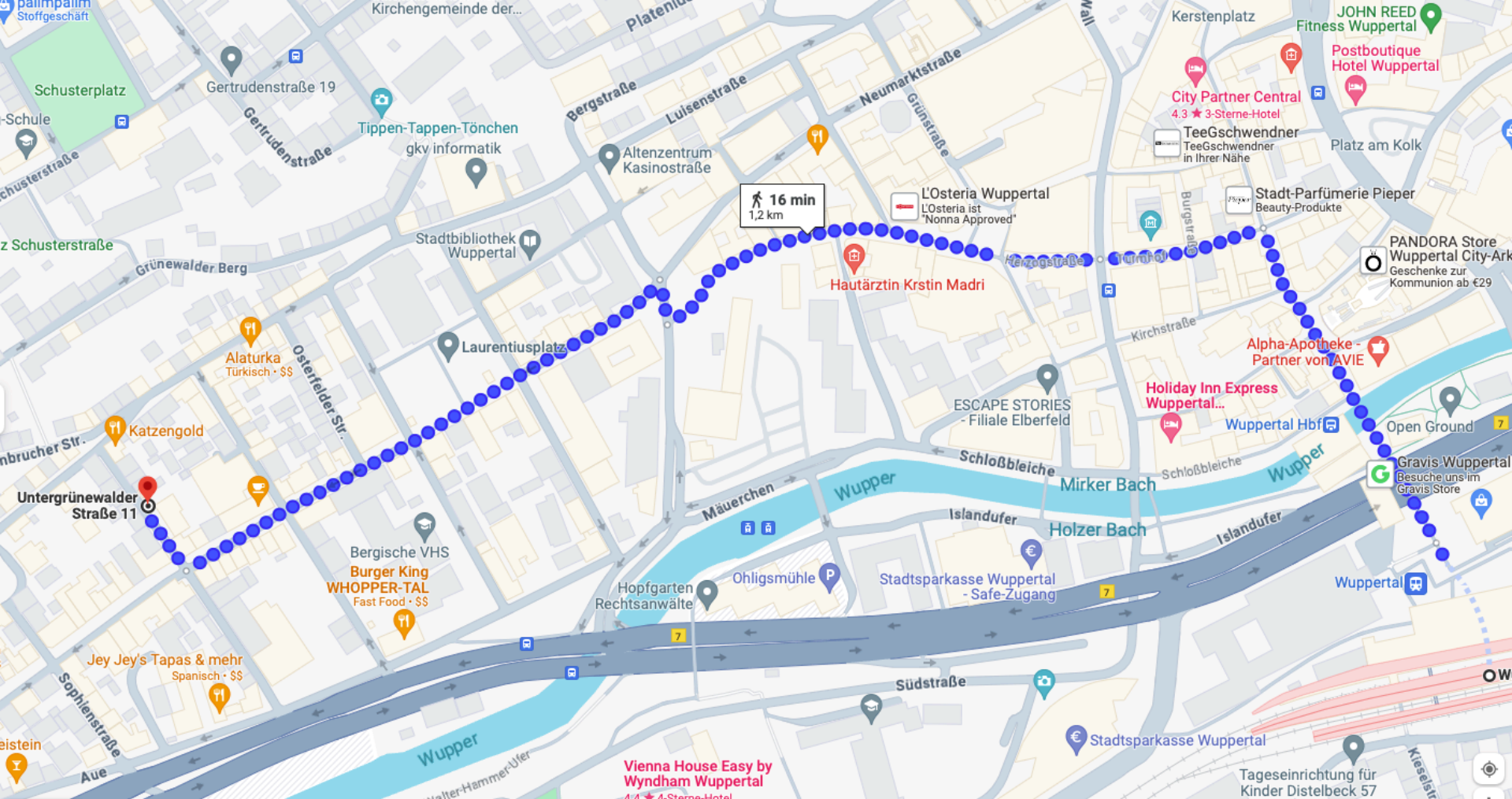
- **Social Dinner on Wednesday**
Locanda San Lorenzo (Italian)

Untergrünwalderstr. 116, 42103 Wuppertal, 19:00 hrs

- **Informal Dinner Tuesday** (free appetiser)
Al Howara (Lebanese)

Benbergstrasse 20 42103 Wuppertal, 19:00 hrs





16 min
1,2 km

L'Osteria Wuppertal
L'Osteria ist 'Nonna Approved'

Hautärztin Krstin Madri

Vienna House Easy by Wyndham Wuppertal
4.4 ★ 4-Sterne-Hotel

Tageseinrichtung für Kinder Distelbeck 57



Some Inform

- Lunch
Mensa/Ca
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Locanda S
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Al Howara
Bembergstras

