



2nd International School
on
Aperiodic Crystals

7 - 12 April 2013, Bayreuth, Germany

**2nd International School on Aperiodic Crystals
and Euroschool 2013 of the *European C-MAC***

7 – 12 April 2013

at the University of Bayreuth, Germany

Program

**European
C-MAC**



2nd International School on Aperiodic Crystals

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Organized by the Commission on Aperiodic Crystals of the International Union of Crystallography (IUCr), with support from the European Integrated Center for the Development of New Metallic Alloys and Compounds (*European C-MAC*) and the German Crystallographic Association (DGK).

Local organisation: Marc de Boissieu, Sander van Smaalen and Andreas Schönleber

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Internet: http://old.crystal.uni-bayreuth.de/aperiodic_crys_school_2013/

Venue

Building RW I – ground floor – rooms S57, S58, S59

on the campus of the University of Bayreuth, Universitätsstrasse 30, 95447 Bayreuth, Germany.

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European C-MAC, IUCr, DGK, CNRS, University of Bayreuth

Dectris, Baden, Switzerland, <http://www.dectris.com/>

Bruker, Karlsruhe, Germany, <http://www.bruker.com/>

Sunday, 7 April 2013

Time		
17:30–19:00	<i>Registration</i>	
19:00–20:00	<i>Welcome party at the Ramada Hotel Residenzschloss Bayreuth, Erlanger Strasse 37, Bayreuth. Phone: 0921-7585-0.</i>	

Monday, 8 April 2013

Time		
9:00–9:10	Opening	S. van Smaalen
9:10–10:30	Refresher: structure determination and diffraction	A. Schönleber
10:30–11:00	<i>Break</i>	
11:00–12:30	Introduction to aperiodic crystals	S. van Smaalen
12:30–14:00	<i>Lunch in the Mensa</i>	
14:00–15:30	Diffraction by incommensurately modulated phases	J. Haderman
15:30–16:00	<i>Break</i>	
16:00–17:30	<i>t</i> -Plots and structural analysis of incommensurately modulated crystals	G. Chapuis

Tuesday, 9 April 2013

Time		
9:00–10:30	Introduction to quasicrystals	M. de Boissieu
10:30–11:00	<i>Break</i>	
11:00–12:30	Icosahedral quasicrystals	H. Takakura
12:30–14:00	<i>Lunch at the mensa</i>	
14:00–14:45	Using JANA2006	V. Petricek
	Tutorials in two parallel sessions. <i>Coffee and Tee at 15:30</i>	
14:45–18:00	(1) Structural analysis of modulated crystals with JANA2006	*
14:45–18:00	(2) Quasicrystals	#

Wednesday, 10 April 2013

Time		
9:00–10:30	The phase problem in aperiodic crystals	M. Dusek
10:30–11:00	<i>Break</i>	
11:00–12:30	Superspace groups	S. van Smaalen
12:30–14:00	<i>Lunch at the mensa</i>	
	Tutorials in two parallel sessions. <i>Coffee and Tee at 15:30</i>	
14:00–15:00	(1) Discussion of the problems on modulated structures	A. Schönleber
15:00–17:30	(1) Structural analysis of modulated crystals with JANA2006	*
14:00–17:30	(2) Quasicrystals	#
17:30–19:30	<i>Poster session – food and beverages provided</i>	

*V. Petricek, M. Dusek, A. Schönleber, O. Perez, G. Chapuis and S. van Smaalen.

#H. Takakura, M. de Boissieu and R. Lifshitz.

Thursday, 11 April 2013

Time		
9:00–10:30	Symmetry without superspace	R. Lifshitz
10:30–11:00	<i>Break</i>	
11:00–12:30	Phasons	M. de Boissieu
12:30–14:00	<i>Lunch at the mensa</i>	
14:00–15:30	Crystal chemistry of aperiodic crystals	O. Pérez
15:30–16:00	<i>Break</i>	
	Tutorials in two parallel sessions	
16:00–17:00	(1) Discussion of the problems on modulated structures	A. Schönleber
17:00–18:00	(1) Structural analysis of modulated crystals with JANA2006	*
16:00–18:00	(2) Quasicrystals	#
18:45	<i>Departure of the bus for the restaurant</i>	
19:00–21:00	<i>Conference dinner at Restaurant Bürgerreuth, An der Bürgerreuth 20, Bayreuth. Phone: 0921-78400.</i>	

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Friday, 12 April 2013

Time		
9:00–9:45	Molecular crystals	A. Schönleber
9:45–10:30	Phase transitions and stability of modulated crystals	G. Chapuis
10:30–11:00	<i>Break</i>	
11:00–11:45	Electron microscopy and materials	J. Haderman
11:45–12:00	Closing remarks	
12:15	<i>Departure by bus. Lunch boxes will be provided</i>	
12:15–19:00	Excursion and visit to Bamberg	
19:00	<i>Return in Bayreuth</i>	

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Abstracts

