Joint European Magnetic Symposia 19 EMA MAGNETISM

Program & Information

10th Joint European Magnetic Symposia

26-30 August 2019 Uppsala Konsert & Kongress, Uppsala, Sweden



@jems2019

General information

Venue

The technical sessions of the JEMS 2019 will take place at the Uppsala *Konsert & Kongress* (UKK), which is located at Vaksala Torg 1, 75331 Uppsala. UKK opened in 2007 and has become one of the most attractive meeting and convention centers in northern Europe.

The conference dinner will take place in the beautiful Castle of Uppsala. The building of the castle was initiated by the Swedish King Gustav Vasa in the 16th century. Today it is used as a museum and for special occasions such as for the graduation dinner ceremony of Uppsala University.

Registration desk

The registration desk can be found at level 2 (street level) of UKK. Note on Sunday the registration is at the Universitetshuset (see map on page 15). The opening hours are as follows:

Sunday, August 25 th	16:30h – 18:30h
Monday, August 26 th	07:30h – 16:30h
Tuesday, August 27 th – Friday, August 30 th	07:45h – 10:15h

Onsite payment

Onsite payment is possible by card during the opening hours of the registration.

Badge policy

All attendees of JEMS2019 are kindly requested to wear their name badges to be able to enter the technical sessions and attend the welcome reception.

WIFI

There is a free WIFI at the conference venue. Network: UKK; PWD: UKK_2019.

Contact

jems2019@akademikonferens.se. In case of emergency, e.g. last minute cancellation etc. call +46 18 6710 03 (Monday-Friday 08.00h-16.00h).

Website

https://jems2019.se

Wardrobe

There is a manned wardrobe on Monday 26th and Friday 30th but very limited space for luggage. If possible leave your luggage at the hotel.

Welcome to Uppsala

Today Uppsala is the 4th largest city in Sweden. It was founded in 500 AD as a small harbor city at the river *Fyris*. In the 15th century, it became the home of the Swedish arch bishop and with the transfer of the diocesan town from Old Uppsala (*Gamla Uppsala*), the construction of the cathedral (*Domkyrkan*), which until today dominates the cityscape of Uppsala, started. Shortly after, in 1477, Uppsala university, the oldest university of Scandinavia, was founded. Among a number of dignitaries, the astronomer Anders Celsius, the botanist Carl Von Linné, the physicist and astronomer Anders Jonas Ångström, and the physicist and Nobel prize winner Kai Siegbahn taught in this University. Today Uppsala university has 40.000 students and more than 7.000 employees.

The newly renovated university library – *Carolina Rediviva* – is worth visiting and to see, e.g., the Silver Bible. Opposite of the *Carolina Rediviva* lies the castle (Uppsala slott) built by king Gustav Vasa. In the large hall, the *Rikssalen*, where the Swedish king Gustav II Adolf was coronated, the conference dinner of JEMS 2019 will take place.

We hope that you will enjoy JEMS 2019 and have a good time in Uppsala.

Good to know

Payment methods

The currency is Swedish Crown (SEK). It's worth noting that Sweden is heading towards a cash free country and hence, some shops and restaurants do not take cash anymore (in Swedish *ej kontant*). It's not possible to pay a bus ticket cash from the bus driver.

In the case of an emergency

The emergency number for police, ambulance, and fire department is 112.

Smoking policy

Smoking is not permitted in public buildings including the conference center.

Electric voltage

The electric voltage in Sweden is 230 V and the power outlet is for type C plugs. Plugs from the UK, Ireland, Cyprus, and Malta need an adapter. For US devices, a transformer is needed.

Public transport

Uppsala has a dense bus net. Green buses are city buses while yellow buses are regional buses, e.g. to the airport. Note that no cash payment is possible in any bus or train. For payment, a credit card is needed. Alternatively, chargeable cards can be purchased in the newspaper stores (*Pressbyrån*) or at the main station.

Presentation information

Oral presentation

The preferred format is 16:9 but 3:4 format can also be displayed. Speakers must test their presentation in the speaker preview room (K6, level 3). You are encouraged to bring your presentation on a USB stick and upload it to the UKK computer system beforehand. Accepted formats are power point and pdf. You might also use your own computer but must bring the needed adapters/dongles on your own.

Contributed presentations are 12 mins. followed by 3 mins. of discussion while invited talks are 25 mins. + 5 mins.

Speaker preview room

The speakers are encouraged to test their presentation and their computer connection in the speaker preview room (K6, level 3) prior to their presentation if they plan to use their own computers. Alternatively, the speakers can upload their presentation to the UKK server and use the presentation equipment of the lecture halls.

Poster presentation

The posters should be mounted latest in the lunch break before the poster session and removed after the session. Materials to attach the posters will be provided.

Poster areas P1-P2 are located on the 3^{rd} level near the escalator and the windows. Poster areas P3-P6 are on the 6^{th} level. For details, see floor map (page 6 and 7).

Coffee breaks

Refreshments will be served during the morning break after the plenary talk session and in the afternoon break outside the lecture rooms in the designated areas on floor 3 and floor 6, see map on page 6 and 7.

Special events

Gender and Science

Tue, 27th August, 13:30 – 14:30 h, room: Hall A

Speaker: Tomas Brage (Lund University, Sweden) **Title:** What does Gender have to do with Physics?

Outreach session with mingling

Tue, 27th August, 18:30 – 20:30 h, room: Hall A

Speaker: Oliver Gutfleisch (TU Darmstadt, Germany)
Title: The element 60 – Neodymium; from critical minerals to powermagnets for renewable energy
Speaker: Adrian Rennie (Uppsala University, Sweden)
Title: Using neutrons to reveal secrets of complex materials

Speaker: Pascale Deen (ESS, Sweden)

Title: The European Spallation Source (ESS): the world's most powerful neutron source addressing some of the most important societal challenges of our time by enabling scientific breakthroughs in research related to materials, energy, health and the environment.

Dominique Givord memorial session

Wed, 28th August, 13:45 - 14:30 h, room: Hall A

Chair: Nora Dempsey (CNRS Grenoble, France)

Speaker: Dino Fiorani (CNR- ISM, Rome, Italy)

Title: Dominique Givord - contributions to the magnetism community

Speaker: Michael Coey (Trinity College Dublin, Ireland)

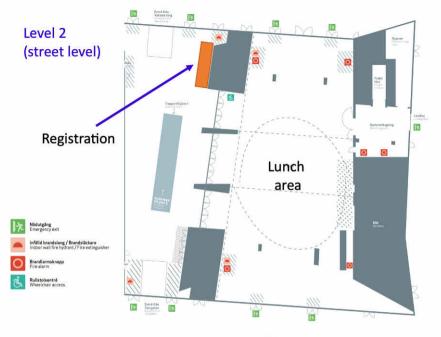
Title: Dominique Givord - a life of science

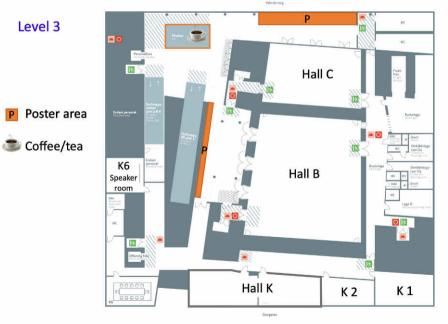
Forward Looking Session

Thu, 29th August, 13:30 – 14:30 h, room: Hall A

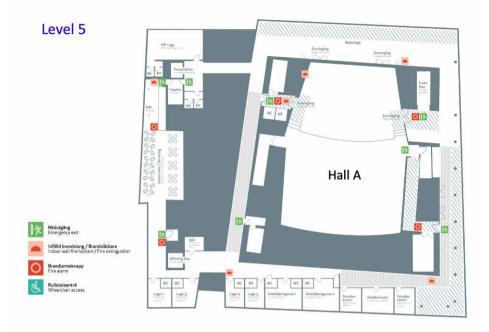
Speaker: Dipankar Das Sarma (Indian Institute of Science, Bengaluru, India) **Title:** In search of quantum spin liquids in "non-quantum" spin systems

Uppsala Konsert & Kongress





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Monday 26th of August

	Hall A	Hall B	Hall C	Hall K
8:00				
	Welcome			
	Plenary 1			
	08:30-09:15			
9:00	(Nicola Spaldin)			
	Semi-Plenary 1 09:20-10:00	Semi-Plenary 2 09:20-10:00		
	(Roser Valenti)	(Neil D Mathur)		
10:00		COFFEE	BREAK	
	Symposium 6:1	Symposium 15:1	Symposium 3:1	Symposium 1:1
	10:30-12:30	10:30-12:30	10:30-12:30	10:30-12:45
11:00	Magnetic thin films.	Spin waves,	Frustrated and	Biomagnetism and
	multilayers, surface	magnonics, ultrafast	disordered	medical applications
	and interfaces	magnetization	magnetism, artificial	
12:00		dynamics and optically driven spin excitations	spin ice	
13:00	-			
	LUNCH BREAK			
14:00	Symposium 9:1	Symposium 16:1	Symposium 3:2	Symposium 1:2
	14:00-16:00	14:00-16:00	14:00-15:00	14:00-15:00
	Materials for energy	Magnetotransport,	Frustrated and disorder- ed magnetism, artificial	Biomagnetism and medical applications
	(permanent magnets,	spintronics, spin	spin ice	
15:00	magnetocalorics and	orbitronics and spin	Symposium 7:1	Symposium 13:1
	soft magnetic materials)	caloritronics	15:00-16:00	15:00-16:00
	materials)		Magnetism in alloys and intermetallics	Magneto-optics and magnetoplasmonics
16:00	and intermetances magnetoplasmonics			
	COFFEE BREAK			
	Symposium 6:2	Symposium 12:1	Symposium 7:2	Symposium 2:1
	16:30-18:30	16:30-18:30	16:30-18:30	16:30-18:30
17:00	Magnetic thin films,	Spin-orbit and	Magnetism in alloys	Electronic structure
	multilayers, surface	topology driven	and intermetallics	and strongly
	and interfaces	phenomena		correlated electron
18:00				systems including
10.00				superconductivity

Tuesday 27th of August

	-	-			
	Hall A	Hall B	Hall C	Hall K	
8:00	Plenary 2 08:15-09:00				
	(Josep Nogues)				
9:00	Semi-Plenary 3 09:05-09:45 (Roberta Sessoli)	Semi-Plenary 4 09:05-09:45 (Thomas Lottermoser)			
10:00	-	COFFEE	BREAK		
	Symposium 9:2 10:15-12:15	Symposium 15:2 10:15-12:15	Symposium 3:3 10:15-12:15	Symposium 5:1 10:15-12:15	
11:00	Materials for energy (permanent magnets, magnetocalorics and soft magnetic materials)	Spin waves, magnonics, ultrafast magnetization dynamics and optically driven spin excitations	Frustrated and disordered magnetism, artificial spin ice	Magnetorecording media, magnetic memories and magnetic sensors	
12:00	-				
13:00	LUNCH BREAK				
	Gender and Science				
14:00	Session 13:30-14:30				
	COFFEE BREAK				
15:00	Symposium 6:3 15:00-17:00	Symposium 16:2 15:00-17:00	Symposium 7:3 15:00-17:00	Symposium 5:2 15:00-16:00 Magnetorecording media,	
	Magnetic thin films, multilayers, surface and	Magnetotransport, spintronics, spin	Magnetism in alloys and intermetallics	magnetic memories, magnetic sensors	
16:00	interfaces	orbitronics and spin caloritronics	internietaines	Symposium 8:1 16:00-17:00 Novel magnetic	
17:00				techniques	
	Poster Session 1 Symposia: S1, S5, S9, S11, S13, S14				
18:00	17:00-18:30 (Poster areas)				
	Outreach Session 18:30-20:30				
		1		1	

Wednesday 28th of August

	Hall A	Hall B	Hall C	Hall K
8:00				
	Plenary 3 08:15-09:00 (Silvia Picozzi)			
9:00	Semi-Plenary 5 09:05-09:45 (Ingrid Mertig)	Semi-Plenary 6 09:05-09:45 (Adekunle Adeyeye)		
10:00	-	COFFEE	BREAK	
	Symposium 9:3 10:15-12:15	Symposium 12:2 10:15-12:15	Symposium 11:1 10:15-12:15	Symposium 8:2 10:15-12:15
11:00	Materials for energy (permanent magnets, magnetocalorics and soft magnetic materials)	Spin-orbit and topology driven phenomena	Nanomaterials, patterned films, nanoparticles and molecular magnetism	Novel magnetic techniques
12:00	-			
13:00	LUNCH BREAK			
13.00	-			
14:00	Dominique Givord memorial session 13:45-14:30			
	COFFEE BREAK			
15:00	Symposium 6:4 15:00-17:00 Magnetic thin films, multilayers, surface and	Symposium 15:3 15:00-17:00 Spin waves, magnonics, ultrafast magnetization	Symposium 14:1 15:00-17:00 Multifunctional magnetic materials: magnetic shape memory	Symposium 10:1 15:00-17:00 Micromagnetics and magnetization processes
16:00	interfaces	dynamics and optically driven spin excitations	materials, multi-ferroics including artificial /composite multi- ferroics, and perovskites	processes
17:00		Symposia: S	ession 2 2, S6, S7, S12 -18:30	
18:00	(Poster areas)			

Thursday 29th of August

	Hall A	Hall B	Hall C	Hall K
8:00				
	Plenary 4 08:15-09:00 (Oliver Gutfleisch)			
9:00	Semi-Plenary 7 09:05-09:45 (Chiara Ciccarelli)	Semi-Plenary 8 09:05-09:45 (Karsten Rode)		
10:00	-	COFFEE	BREAK	
	Symposium 9:4 10:15-12:15	Symposium 16:3 10:15-12:15	Symposium 11:2 10:15-12:15	Symposium 13:2 10:15-12:15
11:00	Materials for energy (permanent magnets, magnetocalorics and soft magnetic materials)	Magnetotransport, spintronics, spin orbitronics and spin caloritronics	Nanomaterials, patterned films, nanoparticles and molecular magnetism	Magneto-optics and magnetoplasmonics
12:00				
	LUNCH BREAK			
13:00	-			
	Forward Looking Session 13:30-14:30			
14:00	-			
	COFFEE BREAK			
15:00	Symposium 6:5 15:00-17:00 Magnetic thin films,	Symposium 12:3 15:00-17:00 Spin-orbit and	Symposium 14:2 15:00-17:00 Multifunctional magnetic materials:	Symposium 10:2 15:00-17:00 Micromagnetics and magnetization
16:00	multilayers, surface and interfaces	topology driven phenomena	magnetic shape memory materials, multi-ferroics including artificial/composite multiferroics, and perovskites	processes
17:00				
18:00	Poster Session 3 Symposia: S3, S4, S8, S10, S15, S16 17:00-18:30 (Poster areas)			
	CONFERENCE DINNER Start 19:00 Uppsala Castle			

Friday 30th of August

	Hall A	Hall B	Hall C	Hall K
8:00	Plenary 5 08:15-09:00 (YoshiChika Otani)			
9:00	Semi-Plenary 9 09:05-09:45 (Dirk Grundler)	Semi-Plenary 10 09:05-09:45 (Andrei Kirilyuk)		
10:00		COFFEE	BREAK	
	Symposium 9:5 10:15-12:15	Symposium 15:4 10:15-12:15	Symposium 11:3 10:15-12:15	Symposium 2:2 10:15-12:15
11:00	Materials for energy (permanent magnets, magnetocalorics and soft magnetic materials)	Spin waves, magnonics, ultrafast magnetization dynamics and optically driven spin excitations	Nanomaterials, patterned films, nanoparticles and molecular magnetism	Electronic structure and strongly correlated electron systems including superconductivity
12:00				
13:00	LUNCH BREAK			
	Symposium 6:6 13:30-15:30	Symposium 16:4 13:30-15:30	Symposium 14:3 13:30-15:30	Symposium 4:1 13:30-15:30
14:00	Magnetic thin films, multilayers, surface and interfaces	Magnetotransport, spintronics, spin orbitronics and spin caloritronics	Multifunctional magnetic materials: magnetic shape memory materials,	Magnetism in carbon- based and organic materials
15:00			multi-ferroics including artificial/composite multiferroics, and perovskites	

Poster sessions

Poster area (floor level)	Session 1 August 27 th 17:00h-18:30h	Session 2 August 28 th 17:00h-18:30h	Session 3 August 29 th 17:00h-18:30h
Level 3	S5 / S11 / S13	S2 / S12	S8 / S15
Level 6	S1 / S9 / S14	S6 / S7	S3 / S4 / S10 /S16

Exhibition

The science exhibition is located on level 6 (map on page 7). Opening hours of the exhibition are

Monday, August 26th – Thursday, August 29^{th:} 08:00h-18:30h Friday, August 30th 08:00h-13:30h

List of Exhibitors



A voice for magnetism in Europe













The Business of Science*



Restaurants

There are many restaurants, cafés, bistros in Uppsala to have lunch or dinner. Below a few selected ones are indicated, which are close to the city center and UKK. Others are in the galleries (St: Per, Svava) and around Stora torget. Please note that a reservation is always recommended (via phone or web) for a dinner. The locations are marked on the map.

(A) Iberico (***) – (Tapas & Bar) Fyristorg 8, phone: +46(0)18-150 531, info@iberico.se

(B) Miss Voon (***) – (Asian) Suttungs gränd 6, phone: +46(0)18-472 25 00, missvoon.se

(C) Peppar peppar (***) – (Scandinavian) Suttungs gränd 3, phone: +46(0)18-131 360, pepparpeppar.se

(D) Pong Uppsala (**_***) – (Asian fusion, no cash accepted) Storgatan 27, phone: +46(0)18-102 828, ponguppsala.se

(E) Stationen (**) – (Bar and Restaurant, European) Olof Palmes plats 6, phone: +46(0)18-153 500, www.stationen.se

(F) Katalin (**) – (Food and Jazz) Roslagsgatan 1, 753 27 Uppsala, phone: +46(0)18-140 680, info@katalin.com

(G) Amazing Thai (**) – (Asian, Thai) Dragarbrunngatan 46, Uppsala, Sverige, phone: +46 (0)18-153-010, amazingthai.se

(H) Il Forno Italiano (**) – (Italian) Sankt Olofsgatan 8, phone: +46(0)18-103 520, ilfornoitaliano.se/uppsala

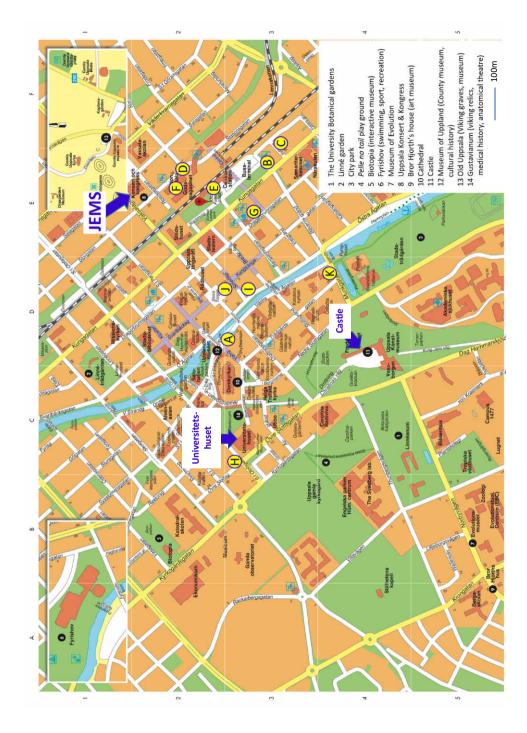
Cafés

Typical Swedish sweets like kanelbulle (cinnamon bun), Princess tårta (cream cake), or morotskaka (carrot cake) and Swedish style sandwiches can be found in Uppsala's cafés. Close to the city center one may find e.g.

(I) Guntherska – (Royal pastry) Östra Ågatan 31, www.guntherska.se

(J) Storken – (Earthy atmosphre, lunch dishes) Stora Torget 3

(K) Konditori Fågelsången -- (Located below the castle) Munkgatan 3, www.konditorifagelsangen.se



Organization

Local Organizing Committee

Uppsala University: Gabriella Andersson, Heike C. Herper, Roland Mathieu (chair), Per Nordblad, Biplab Sanyal (chair), Martin Häggblad Sahlberg, Tapati Sarkar, **Stockholm University**: Matthias Hudl Waltin

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Conference Organization and Support



Akademikonferens Uppsala

UPPSALA KONSERT& KONGRESS Uppsala congress center UKK

Impressum

Title photo of UKK (H.C. Herper), skyline Uppsala (Uppsala City), Uppsala city map (Destination Uppsala – tourist office), Text: H. C. Herper.

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