



# XXII International Conference on Few-Body Problems in Physics

9-13 JULY 2018-Caen, France



We are pleased to announce that the next International Conference on Few-Body Problems in Physics – “FB22” – will be held in Caen, France from 9 to 13 July next year. This will be the 22nd edition of this conference series which began in 1959 in London and was most recently held in Chicago in May 2015 and Fukuoka in August 2012.

Following tradition FB22 will be an interdisciplinary conference covering a very wide range of aspects of few-body problems in diverse fields of physics – both from the theoretical and experimental points of views – including:

- Atomic and molecular physics.
- Hadron physics and related high-energy physics.
- Strange and exotic matter, including hypernuclear physics.
- Few-nucleon systems.
- Few-body aspects of nuclear physics and nuclear astrophysics.
- ...

## PROGRAMME

The conference’s scientific programme will run over 5 days and feature both plenary and parallel sessions (including invited lead-off talks and contributed papers) together with a dedicated poster session. Posters will be made available for display for the duration of the conference.

The conference programme will be structured so as to accommodate a large number of speakers while allowing ample time for discussions as well as social activities. At present we envisage 30 plenary presentations and over 140 invited and contributed talks. Emphasis will be placed on plenary presentations which are accessible to the few-body community as a whole. The participation of the younger members of the community and underrepresented groups will be encouraged.

FB22 will also be the venue for the presentation of the first Faddeev Medal, which has recently been established jointly by the European (ERCFBP) and American (GFB) few-body communities. The award will include a plenary presentation by the winner of the medal.

## HOST CITY



Caen is a medium sized city in the Normandy Region of north-western France and is host to a number of laboratories with strong links to few-body physics, including GANIL, which operates the SPIRAL radioactive beam facility, the LPC nuclear and particle physics laboratory and the CIMAP laboratory for ion, materials science and photonics research. The conference venue will be located in the downtown area of Caen.

Caen is a city steeped in history, having been the seat of power of the Dukes of Normandy, most notably during the reign of William the Conqueror in the 11th century and the centre of the struggle for the liberation of France during the battle of Normandy in 1944. Despite the latter, many sites of historical interest remain, including William's castle fort in the centre of Caen, and the "Abbaye aux Hommes" and the "Abbaye aux Dames". Caen also hosts the "Memorial" Peace Museum and is close to many well-known attractions, such as Bayeux and its Tapestry, the Normandy Landing Beaches and Mont Saint Michel. [<http://www.youtube.com/watch?v=AmrCH0AhbDg&feature=youtu.be>]

## ACCESS

The city of Caen lies some 230 km west of Paris which is served daily by most major airlines (Charles de Gaulle and Orly airports). Caen is easily reached from Paris by train (2 hour journey with trains every 1 to 2 hours from Paris St Lazare train station) and car (2 1/2 hour drive). Caen is served 3 times daily by air from Lyon (St Exupery Airport) which has connections to many European cities. Travel from the UK is also possible using the ferry service from Portsmouth (3 services daily, with a sailing time of some 6 hours) as well as direct air links (typically 3 to 4 times per week) from London (Southend Airport).

## COSTS

At present we envisage that the registration costs, including the conference dinner, coffee breaks, reception and proceedings, will not exceed €350. Discounts for early registration and student registration will apply. Financial support has already been promised by LPC-Caen, GANIL and IPN-Orsay.

Support from other organisations, such as the IN2P3/CNRS, the CEA, the University of Caen, and the city of Caen is being sought.

Importantly we also expect that the IUPAP will support the conference. As such, FB22 will be conducted in accordance with IUPAP principles, as stated in the resolution passed by the IUPAP General Assembly of 2008. In particular, no bona fide scientist will be excluded from participation on the grounds of national origin, nationality, or political considerations unrelated to science.

## **PROCEEDINGS**

Written contributions for all presentations including posters will be published in the conference proceedings. In order to expedite their publication, as well as minimise the costs, and hence the impact on the registration fees, the proceedings will only be published electronically. All contributions will be refereed.

## **ACCOMODATION, DINING & SOCIAL EVENTS**

Caen has a wide range of hotels ranging in prices from around €50 up to €150-200/night which may be easily booked via the usual web based booking sites. As the conference occurs at the beginning of the summer vacation period, we suggest that you book well in advance. Most of the hotels are within walking distance of the conference venue or easily accessible via public transport.

Caen also offers many dining options covering the full gamut of prices and choices from cafés and bistros to Michelin star restaurants and local to foreign cuisine.

In addition to the conference dinner (planned for the Thursday evening), the Wednesday afternoon will be free. No formal excursions will be organised so as to allow the participants the greatest possible freedom in their choice of activities. We note that in addition to the many historical sites in Caen, as well as the Memorial Museum, Bayeux (including its famous Tapestry and cathedral) as well as the Normandy Landing Beaches are well within reach by public transport. Excursions for small groups, such as tours of some of the more distant landing beaches may be easily arranged through the Tourist Office and some hotels.

We note that the Saturday following the conference is Bastille Day (14 July). As such participants might consider spending their weekend in Paris in order to take in the celebrations. For those envisaging visiting Mont St Michel, it is approximately 130 km from Caen and should be considered a full day trip.

## **CALENDAR**

We expect to soon bring the conference web site on-line: <https://fb22-caen.sciencesconf.org>

Further information will be circulated in the Autumn as well as posted on the FB22 web site. We would expect that the call for abstracts will open in January, as will the registration. We would encourage you to circulate this announcement among your collaborators and colleagues.

We look forward to seeing you in Caen next summer,

The Local Organising Committee

*Nigel Orr (LPC-Caen) – Chair*

*Jaume Carbonell (IPN-Orsay) – Chair International Advisory Committee*

*Marek Ploszajczak (GANIL, Caen) – Chair Scientific Programme Committee*

*Lynda Achouri (LPC-Caen)*

*Amine Cassimi (CIMAP, Caen)*

*Mario Gattobigio (INPHYNI, Nice)*

*Paul-Antoine Hervieux (IPCM, Strasbourg)*

*Ubirajara van Kolck (IPN-Orsay)*

*Rimantas Lazauskas (IPHC, Strasbourg)*

*Hervé Moutarde (IRFU, CEA-Saclay)*

*Miguel Marqués (LPC-Caen)*

*Jean-Marc Richard (IPN-Lyon)*