

## Report on Activities of IUPAP Commission C18: June 22 to August 23

Commission C18 of the International Union of Pure and Applied Physics (IUPAP) is dedicated to Mathematical Physics. This report summarizes the key activities undertaken by Commission C18 between June 22 and August 23.

### 1. Sponsored Conferences in 2022:

Commission C18 recommended two significant conferences in 2022 that were funded by IUPAP. The first was the Qmath15 (Mathematical Results in Quantum Theory) conference held at UC Davis in September 2022. The second was the Group34 (34th International Colloquium on Group Theoretical Methods in Physics) conference held in Strasbourg in July 2022.

### 2. Conference Support Calls:

The commission encountered a setback in the call for applications for IUPAP conference support for the year 2023 which was unsuccessful. However, the commission C18 received two applications in response to the call issued for IUPAP conference support for the year 2024. The first application originated from the organizers of the International Congress of Mathematical Physics (ICMP), scheduled to be held in Strasbourg in July 2024. The second application pertained to a semester-long event on quantum statistical physics, culminating in a conference on quantum statistical mechanics in Toulouse in May 2024. The prioritization of these proposals was discussed during the months of June and July 2023 and sent to the IUPAP EC.

### 3. Early Career Scientist Prize Nominations:

In June, the call for nominations for the Early Career Scientist Prize (formerly known as the Young Scientist Prize) was issued by Commission C18. This award is presented every three years to three young scientists working in the field of mathematical physics. The selection process for the laureates is scheduled to occur between the fall of 2023 and spring of 2024, with the winners being announced during the triennial ICMP to be held in 2024.

Additionally, Commission C18 has been engaged in the selection process for the laureate of the new interdisciplinary early career prize, which is set to be awarded in October 2023.

### 4. Future Leadership:

The commission's officers initiated discussions concerning the election of the next Commission Chair, in order to ensuring leadership continuity. A candidate for the next term was proposed to the IUPAP President by the current Chair.