## Report of the C3 Commission (Statistical Physics) to the IUPAP submitted on 30 September 2021

We have mentioned in our last report (30 August 2020) that the C3 Commission for Statistical Physics is responsible for running the IUPAP StatPhys Conference, which has been held 27 times so far; the last two such meetings were StatPhys 26, held in Lyon, France in 2016, and StatPhys 27, held from 8-12 July 2019 in Buenos Aires, Argentina [ https://statphys27.df.uba.ar/ ].

During such StatPhys conferences, the C3 Commission meets, the Boltzmann Medal is awarded to outstanding Statistical Physicists (chosen by votes of the members of the C3 Commission, the former Chair of the C3 Commission, the Chair of the Organizing Committee for the STATPHYS Conference, and previous Boltzmann Medalists). In addition, in the last five meetings, Young Scientist Prizes have been awarded to highly promising young Statistical Physicists.

Since we submitted our last report to the IUPAP, the C3 Commission has worked on several issues related to the organization of the next StatPhys meeting.

- 1. The term of the C3 Commission was extended by a year because the General Assembly had to be postponed to October 2021 as a result of the COVID-19 pandemic.
- 2. Given this extension, the C3 Commission has worked closely with the Japanese statistical physicists who will host the next meeting, StatPhys 28, in August 2022. This meeting was to have been held in Yokohama; but, because of pandemic-related difficulties, it has been moved to the campus of the University of Tokyo.
- 3. In consultation with the Local Organisng Committee (LOC), led by Professor T. Deguchi, the C3 Commission has appointed a Steering Committee (SC) for StatPhys 28. Details are available on the website of this meeting: <a href="https://statphys28.org/">https://statphys28.org/</a>.
- 4. The C3 Commission has also recommended StatPhys 28 for the highest level of support from the IUPAP.
- 5. The SC has had regular online meetings, about once a month, with the LOC for the organization of StatPhys 28.
- 6. In particular, the International Advisory Committee (IAC) has been renewed and their recommendations have been sought for speakers for plenary and invited talks. These recommendations have been discussed by the SC and a final list of invitees has been prepared. They have been contacted by the LOC and they have confirmed that they will deliver lectures at StatPhys 28.
- 7. Although an in-person StatPhys 28 meeting is being planned, given the unpredictable nature of the pandemic, backup plans have also been drawn up for a hybrid or a completely online meeting.

- 8. Calls for nominations for the Boltzmann Medals and the Young Scientist Prizes will be sent out as soon as the new C3 Commission takes over after the meeting of the General Assembly of the IUPAP in October 2021.
- 9. Several expressions of interest have been received for the organization of StatPhys 29, in 2025. Formal proposals for this will be considered by the new C3 Commission during its meeting at the time of the StatPhys 28 meeting.

Rahul Pandit, Chair, C3 Commission (Statistical Physics) of the IUPAP

Maxi San Miguel, Vice Chair, C3 Commission (Statistical Physics) of the IUPAP

Lucilla de Arcangelis, Secretary, C3 Commission (Statistical Physics) of the IUPAP