

SPECIAL SESSION: HOLOMORPHIC FOLIATIONS AND COMPLEX GEOMETRY

Organizers:

1. Maycol Falla – Universidade Federal Fluminense.
2. Frank Loray – CNRS, Université de Rennes 1.

Context of the session:

Holomorphic foliations have had a long history in Brazil-French collaboration since 80's. This subject has been developed at IMPA by C. Camacho, A. Lins Neto and P. Sad after a celebrating paper of Camacho, Kuiper and Palis. Simultaneously, in France, it was developed by R. Moussu, J.-F. Mattei and D. Cerveau in Dijon, and by J. Martinet and J.-F. Ramis in Strasbourg. One of the main collaborations between the two groups, namely Cerveau and Lins Neto, started around 85 and is still very active today with more than 15 papers. The thematic of holomorphic foliations has been enlarging from years to years. Coming from the study of ordinary differential equation in the complex domain, inspired by the works of Poincaré and Painlevé, among others, it included dynamical aspects from the 90's with the works of J.-C. Yoccoz and R. Perez Marco. Next, new directions were opened by the development of holomorphic dynamical systems in several variables, and complex analytic geometry. É. Ghys, N. Sibony and their students entered in the thematic bringing new questions and powerful tools like currents ; we can mention the works of S. Cantat, C. Favre, B. Deroin and V. Kleptsyn. Finally, some aspects towards complex algebraic geometry have been developed by M. Brunella, L. G. Mendes, M. Mc Quillan, J.-V. Pereira, C. Araujo, S. Druel, and more arithmetic aspects by J. B. Bost. We can say that holomorphic foliations have been adopted and used as a powerful tool by many branches of mathematics today.

Speakers:

1. Carolina Araujo – IMPA.
2. André Belotto – Univ Aix Marseille.
3. Gabriel Calsamiglia – UFF.
4. Benoit Claudon – Univ de Rennes 1.
5. Eleonora Di Nezza – Univ Sorbonne.
6. Marcos Jardim – UNICAMP.
7. Laurent Meersseman – Univ Angers.
8. Marianna Ravara Vago – UFSC.
9. Erwan Rousseau – Univ Aix Marseille.
10. Jorge Vitorio Pereira – IMPA.