



Foreword

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Abstract. The Low Temperature Physics Conference is an international event held every three years, under the auspices of the IUPAP through its Commission C5 on Low Temperature Physics. These conferences aim at the exchange of information and views among the members of the international scientific community in the general field of Low Temperature Physics, promoting the excellence of invited and contributed presentations. It is a tradition that LT offers updates on the various topics, provided by the highest representatives of the field, as well as oral and poster contributions in the different areas.

LT27 was the first conference of the series that took place in South America. It was therefore a particular challenge for us and it is a source of pride to present these Proceedings as proof of the wonderful scientific atmosphere at the meeting.

We wish to acknowledge our host institutions, sponsors, and the many people whose work made this meeting possible. Our appreciation goes to all of them, as well as to speakers and attendants.

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We wish to acknowledge our host institutions, Departamento de Física (Facultad de Ciencias Exactas y Naturales -UBA) and Instituto de Física de Buenos Aires (IFIBA), as well as the work of the many people that made this conference possible. We are especially indebted to our institutional sponsors, the International Union of Pure and Applied Physics (IUPAP), Centro Latinoamericano de Física (CLAF), International Centre for Theoretical Physics (ICTP) and Universidad de Buenos Aires (UBA), Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Ministerio de Ciencia, Tecnología e Innovación Productiva (MINCYT) and Agencia Nacional de Promoción Científica y Tecnológica (ANPCYT) from Argentina for financial support. The generous contributions of the organizers of the former Conference LT26 as well as our commercial sponsors Attocube, CamCool Research Limited, Cryogenic, Cryomech Inc., ICEOxford, IOP Publishing, Janis Research, Lake Shore Cryotronics, Leiden Cryogenics, Oxford Instruments and Quantum Design International have provided a substantial input to the Conference budget. We also acknowledge very encouraging auspices of Asociación Física Argentina (AFA), Academia Nacional de Ciencias Exactas, Físicas y Naturales, Asociación Argentina para el Progreso de las Ciencias and Gobierno de la Ciudad de Buenos Aires.

We list below the members of the organizing committees. A Conference Summary prepared by John Saunders and Kimitoshi Kono, Secretary and Chair, respectively, of the Commission C5 (Low Temperature Physics) of the IUPAP is also included.

We wish also to acknowledge the IOP personnel, who not only provided the outlet for these Proceedings but were also of invaluable help during the editorial process

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