PREFACE

In view of the success of the meeting "Magnetic Fields in the Universe: from Laboratory and Stars to Primordial Structures", held in Angra dos Reis (Brazil) in December 2004. A second edition was organized, this time on the Mexican caribbean, in the island of Cozumel, from January 28th to February 1st. 2008. These are the proceedings of such meeting.

The meeting brought a large number of experts on the field, covering a wide range of interests:

- space plasmas,
- solar and stellar plasmas,
- magnetic fields in star formation and stellar structure and evolution,
- magnetized interstellar medium,
- magnetic fields in compact objects and accretion disks,
- magnetized jets, outflows and winds,
- galactic magnetic field,
- magnetic field effects in galaxies and active galactic nuclei,
- magnetic fields in clusters of galaxies,
- intergalactic magnetic fields,
- magnetic fields in the early universe,
- MHD instabilities in astrophysical sources,
- basic plasma processes,
- turbulence, magnetic reconnection, dynamo processes.

We would like to express out gratitude to all the people that contributed with the success of the conference, in particular to the Scientific Organizing Committee that consisted of J. Franco (chair), E. M. de Gouveia Dal Pino, A. Lazarian, G.García-Segura, R. Beck, S. Prager, A. Raga, S. Lizano, F. Moreno Insertis, F. Shu, C. McKee, R. Schlickeiser, K. Shibata, D. Crutcher, E. Vishniac, B. Gaensler, J. Stone, and C. Heiles; and to the Local Organizing Committee comprised by X. Blanco, A. Esquivel (chair), G. García-Segura, L. Hernández, P. Kadjic, W. Lee, V. Lora, L. Perillat, A. Rodríguez, J. Sánchez, and A. Santillán.

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