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# Preface

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The eleventh Event in the series of CERN Latin-American Schools of High-Energy Physics took place from 15 to 28 March 2023 in San Esteban, Chile. It was organized by CERN with the support of Chilean colleagues from Universidad Andrés Bello, Universidad Técnica Federico Santa María, and CCTVal (Valparaiso Center for Science and Technology).

The School received financial support from: CERN and CIEMAT. Financial and in-kind contributions were also received from SAPHIR – Millennium Institute for Subatomic Physics at the High Energy Frontier. Our sincere thanks go to all of the sponsors for making it possible to organize the School with a large number of young participants from Latin-American countries, many of whom would otherwise not have been able to attend.

The School was hosted in the Termas el Corazón Hotel in San Esteban, about 90 minutes from Santiago. We are indebted to the hotel and its friendly staff for their help in making the Event such a success.

Mauro Cambiaso from Universidad Andrés Bello acted as local director for the School, assisted by members of the local organising committee. We are extremely grateful to Mauro and his colleagues for their excellent work in organizing the School and for creating such a wonderful atmosphere for the participants. Sixty-six students of 21 different nationalities attended the School. Following the tradition of the School the students shared twin rooms mixing nationalities, and in particular the Europeans mixed with Latin Americans.

The 13 lecturers came from Europe, Latin America and the USA. The lectures, which were given in English, were complemented by daily discussion sessions led by five physicists coming from Latin America. The lectures and the discussion sessions were all held using the conference facilities of the hotel. The students displayed their own research work in the form of posters in a special evening session during the first week. The posters were left on display until the end of the School. The students from each discussion group also performed a project, studying in detail the analysis of a published paper from an LHC experiment. A representative of each group gave a brief summary talk during a special evening session during the second week of the School.

Our thanks are due to the lecturers and discussion leaders for their active participation in the School and for making the scientific programme so stimulating. The students who in turn manifested their good spirits during two intense weeks undoubtedly appreciated their personal contributions in answering questions and explaining points of theory.

We are very grateful to Kate Ross, the administrator for the CERN Schools of Physics, for her efforts in the lengthy preparations for the School and during the Event itself. Her efficient work, friendly attitude, and continuous care of the participants and their needs were highly appreciated.

The participants will certainly remember the two interesting excursions: an afternoon visit to the city of Santiago, followed by dinner at a local restaurant; and a full-day excursion to the town of

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Zapallar and an exciting walk along the coastal path before dinner in a lovely restaurant overlooking the sea. They also greatly appreciated evenings spent together in the hotel, especially the farewell party on the last night. The success of the School was to a large extent due to the students themselves. Their poster session and group projects were very well prepared and highly appreciated, and throughout the School they participated actively during the lectures, in the discussion sessions, and in the different activities and excursions.

Martijn Mulders

(On behalf of the Organizing Committee)