
Preface

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The twenty-eighth event in the series of the European School of High-Energy Physics took place in Ma'ale Hachamisha (near Jerusalem), Israel, from 30 November to 13 December 2022. It was organized by CERN, with support from the Weizmann Institute, Tel Aviv University, Ben Gurion University, Technion, the Hebrew University of Jerusalem and the Azrieli Foundation. The local organization team was chaired by Gilad Perez (Weizmann Institute).

A total of 71 students of 21 different nationalities attended the school, mainly from institutes in member states of CERN, but also some from other regions. The participants were generally students in experimental High-Energy Physics in the final years of work towards their PhDs.

The School was hosted at the Yearim Hotel, in the Jerusalem hills. According to the tradition of the School, the students shared twin rooms mixing participants of different nationalities. A total of 31 lectures were complemented by daily discussion sessions led by five discussion leaders. The students displayed their own research work in the form of posters in an evening session in the first week, and the posters stayed on display until the end of the School. The full scientific programme was arranged in the on-site conference facilities.

The School also included an element of outreach training, complementing the main scientific programme. This consisted of a two-part course from the Inside Edge media training company. Additionally, students had the opportunity to act out radio interviews under realistic conditions based on a hypothetical scenario. The students from each discussion group subsequently carried out a collaborative project, preparing a talk on a physics-related topic at a level appropriate for a general audience. The talks were given by student representatives of each group in an evening session in the second week of the School. A jury, chaired by Dana Bernstein (Weizmann), judged the presentations; other members of the jury were Yossi Nir (Weizmann), and Guy Wilkinson (University of Oxford). We are very grateful to all of these people for their help.

Our thanks go to the local-organization team for all of their work and assistance in preparing the School, on both scientific and practical matters, and for their presence throughout the event. Our thanks also go to the efficient and friendly hotel management and staff who assisted the School organizers and the participants in many ways.

Very great 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, appreciated listening to and discussing with the teaching staff of world renown.

In addition to the rich academic programme, the participants enjoyed leisure and cultural activities in Israel. There was a half-day excursion to Jerusalem, including a fascinating guided tour around the historical sites of the city. A full-day excursion to Masada, an impressive archaeological site in the Judean Desert, was followed by a visit to the Dead Sea. On the final Saturday afternoon, the students

were able to make use of the hotel facilities during free time or visit the city of Jerusalem independently. The excursions provided an excellent environment for informal interactions between staff and students. We are very grateful to the School Administrator, Kate Ross (CERN) and Administrator for the LOC, Adi Zehavi (Weizmann), for their untiring efforts in the lengthy preparations for and the day-to-day operation of the School. Their continuous care of the participants and their needs during the School was highly appreciated.

The success of the School was to a large extent due to the students themselves. Their poster session was very well prepared and highly appreciated, their group projects were a big success, 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)