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## Preface to the Fourth Edition

It is a pleasure to see the positive resonance of our book, which now necessitates a fourth edition. We have used this opportunity to correct misprints and errors, and to extend and improve the discussion of many of the exercises and examples.

The examples on neutrino mass (7.4), double  $\beta$  decay (7.8 and 7.9) and solar neutrinos (7.10) have been updated in the light of the experimental results obtained in the last years. Neutrino physics has become a tremendously active and exciting area of research, and we can expect to see conclusive experimental results on neutrino masses and oscillation parameters in the near future. We hope that our text will help students to appreciate these developments.

Again, we thank all colleagues and readers for their comments and information about misprints in the book, and we appreciate the cooperation with the publishing team at Springer-Verlag, and with Dr. Stefan Scherer, in the preparation of this fourth edition.

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