

Preface

The Eleventh Workshop on Quantum Chromodynamics was held at the Institut d'Astrophysique de Paris, France, (IAP), during the week of 6-10 June 2011. Prof. Berndt Mueller, Duke University, and Prof. Chung-I Tan, Brown University, served as co-Directors. Ten half-day Sessions, dealing with various and distinct themes within the general QCD framework, were organized and chaired by many leading high-energy physicists, to form the principal part of the Workshop Program.

These Workshops have been a witness to the evolution of our understanding of QCD, from Perturbation Theory to Non-Perturbative Lattice and Analytic Formulations, and more recently to the Age of Gauge/String Duality; and one cannot help but look forward to profound Non-Perturbative developments in years to come. Topics covered at this Workshop ranged from Gluon Amplitudes and AdS/CFT, High Density phenomenon at RHIC, Diffraction and Higgs Production at LHC, Conformal Windows beyond the Standard Model, Lattice Gauge Theory, to Cosmic Ray/Astro-Particle Physics and Cosmology, Analytic and Non Perturbative, Gauge-Invariant Gluon Summations in QCD.

Thanks should go to Dr. Jerome Martin of IAP who provided daily and unflagging assistance to us all; and to the Faculty and Staff of IAP who were most generous and efficient and welcoming to our Workshop. Special thanks should also go to Mary Ann Rotondo, our Conference Coordinator, for supervising all relevant aspects, during and after the Workshop. Her kind and efficient performance of the various and necessary tasks was and is essential for the success of these Workshops.