

TOWARDS THE EUROPEAN STRATEGY FOR PARTICLE PHYSICS: THE BRIEFING BOOK

X-4 Relations between theory and experiment

In the era of LHC data analysis, we anticipate that the distinction between theory and experiment will become less clear, and more like a continuous spectrum of interests and activities (as is the case in astronomy). Some theorists are already playing important roles in the development of analysis tools, event simulation, etc., for the LHC experiments. More thought needs to be given to the career development of those who work in this ‘grey area’. Students need to be able to pursue curricula that combine theoretical and experimental work, and proper credit for both aspects should be assigned in hiring and promotions.