

1. Record Nr.	UNINA9910451341803321
Titolo	Quantum aspects of beam physics [[electronic resource] ] : the Joint 28th ICFA Advanced Beam Dynamics and Advanced & Novel Accelerators Workshop, Hiroshima, Japan, 7-11 January 2003 // editors, Pisin Chen & Kevin Reil
Pubbl/distr/stampa	Singapore, : World Scientific, c2004
ISBN	1-281-89839-2 9786611898397 981-270-233-4
Descrizione fisica	1 online resource (541 p.)
Altri autori (Persone)	ChenPisin <1950-> ReilKevin
Disciplina	539.7/3
Soggetti	Beam dynamics Quantum electrodynamics Particle beams Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"This was the third in the QABP workshop series"--Pref.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface P. Chen; CONTENTS; I. Quantum Fluctuations and Methodologies in Beam Physics; II. Photon-Electron Interaction in Beam Production, Cooling and Monitoring; III. Beam Phenomena under Strong Fields; IV. High Energy and Laboratory Astrophysics; V. Critical Issues in Linear Colliders, Plasma Accelerators, and Ultra Cold Beams; Appendices; Committees; List of Participants; Conference Program; Conference Photos; Author Index
Sommario/riassunto	This proceedings volume of the 3rd International Workshop on Quantum Aspects of Beam Physics, presents the latest advances in beam dynamics. The frontiers of beam research point to increasingly high energy, greater brightness and lower emittance beams with ever-increasing particle species. These demands have triggered a rapidly growing number of beam phenomena that involve quantum effects. In addition to the more established topics, this volume covers topics on high energy-density particle and photon beams for laboratory

astrophysics investigations, as well as the application of beam physics  
e

---