

1. Record Nr.	UNINA9910300550003321
Titolo	The Euroschool on Exotic Beams - Vol. 5 // edited by Christoph Scheidenberger, Marek Pfützner
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-74878-5
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XII, 292 p. 158 illus., 106 illus. in color.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 948
Disciplina	539.73
Soggetti	Nuclear physics Heavy ions Particle acceleration Spectroscopy Microscopy Nuclear Physics, Heavy Ions, Hadrons Particle Acceleration and Detection, Beam Physics Spectroscopy and Microscopy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- Applications of ¹⁴ C, the most versatile radionuclide to explore our world (Walter Kutschera) -- Nuclear structure probed by strong, weak and electro-magnetic interactions (Yoshitaka Fujita) -- Alpha decay and beta-delayed fission: tools for nuclear physics studies (Andrei Andreyev and Piet Van Duppen) -- Giant Resonances: Fundamental modes and probes of nuclear properties (Muhsin N. Harakeh) -- Hypernuclear spectroscopy and hypernuclear physics with heavy ion beams and fixed targets (Takehiko Saito) -- Nuclear Structure and Reactions in Fermionic Molecular Dynamics (Thomas Neff) -- Laser-ion acceleration (Peter G. Thirolf).
Sommario/riassunto	This is the fifth volume in a series of Lecture Notes based on the highly successful Euro Summer School on Exotic Beams. The aim of these notes is to provide a thorough introduction to radioactive ion-beam physics at the level of graduate students and young postdocs starting out in the field. Each volume covers a range of topics from nuclear

theory to experiment and applications. Vol I has been published as LNP 651, Vol II as LNP 700, Vol. III as LNP 764 and Vol. IV as LNP 879.
