

1. Record Nr.	UNINA9910450714603321
Autore	MacGregor Malcolm H (Malcolm Herbert), <1926->
Titolo	The power of [alpha] [[electronic resource]] : electron elementary particle generation with [alpha]-quantized lifetimes and masses // Malcolm H. Mac Gregor
Pubbl/distr/stampa	Hackensack, N.J. ; ; London, : World Scientific, c2007
ISBN	1-281-12101-0 9786611121013 981-270-836-7
Descrizione fisica	1 online resource (459 p.)
Disciplina	539.7/232
Soggetti	Alpha rays Particles (Nuclear physics) Phenomenological theory (Physics) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 415-420) and index.
Nota di contenuto	Preface: The Training of an Elementary Particle Phenomenologist; Contents; List of Figures; 0. A Pictorial Journey through the Landscape of -Quantized Elementary Particle Lifetimes and Masses; 1. Lifetime and Mass -Quantization: Physics Beyond the Paradigm; 2. The Phenomenology of -Quantized Particle Lifetimes and Mass-Widths; 3. The Phenomenology of Reciprocal; 4. The Mathology of the Elementary Particle: The Relativistically Spinning Sphere; 5. The Mathology of Particle Waves: The Particle-Hole Pair; 6. The Mathology of the Fine Structure Constant = $e^2/\hbar c$; 7. Ramifications Postscript: The Saga of the $m_b = 70$ MeV and $m_f = 105$ MeV Mass Quanta Appendices; Acknowledgments; References; Index
Sommario/riassunto	This book is centered on the most pressing unsolved problem in elementary particle physics - the mass generation of particles. It contains physics that is not included in the Standard Model as it is now formulated, while at the same time being in conformity with the major results of the Standard Model, i.e. isotopic spins and interactions. It differs from the Standard Model in the treatment of masses and

pseudoscalar mesons, and in the role assigned to the coupling constant g . Presented in a careful and phenomenological way, the material can easily be followed by all physicists, both experiment
