

1. Record Nr.	UNINA9910788632403321
Titolo	Gems in experimental mathematics : AMS Special Session, Experimental Mathematics, January 5, 2009, Washington, DC // Tewodros Amdeberhan, Luis A. Medina, Victor H. Moll, editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2010] ©2010
ISBN	0-8218-8196-5 0-8218-4869-0
Descrizione fisica	1 online resource (426 p.)
Collana	Contemporary mathematics, ; 517 , 0271-4132
Disciplina	511/.6
Soggetti	Combinatorial analysis Number theory Experimental mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"This collection [of papers] is a continuation of Tapas in experimental mathematics, volume 457 [Contemporary Mathematics series]"-- Preface.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	A new algorithm for the recursion of hypergeometric multi-sums with improved universal denominator -- 1. Introduction -- 2. Two algorithms -- 3. Use of the program and examples -- 4. Proof of the multi-sum algorithm -- 5. Proof of the universal denominator algorithm -- References -- The method of brackets. Part 2: Examples and applications -- History of the formulas and algorithms for IR -- A matrix form of Ramanujan-type series for $1/E$ -- An algorithmic approach to the Mellin transform method -- Which partial sums of the Taylor-series for e are convergents to e (and a link to the primes 2, 5, 13, 37, 463). Experimentation at the frontiers of reality in Schubert calculus -- On Sp_4 modularity of Picard-Fuchs differential equations for Calabi-Yau three-folds.