



## 2D-gravity in non-critical strings [ discrete and continuum approaches /

Abdalla, Elcio

Springer-Verlag,  
1994

Llibres electrònics

Monografía

This book contains a survey of the use of the Liouville (and super-Liouville) equation in (super)string theory outside the critical dimension, and of the complementary approach based on the discretized space-time, known as the matrix model approach. Supersymmetry is given particular attention, both in the continuum formulation, by means of the Liouville equation, and through the consideration of the super-eigenvalue problem. The methods presented here are important in a large number of complex problems, e.g. random surfaces, 2-D gravity and large-N quantum chromodynamics. The comparison of different methods in the study of such problems permits a cross-evaluation of the results when both methods are applicable and new predictions when only one of the methods may be used

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**Título:** 2D-gravity in non-critical strings Recurs electrònic] discrete and continuum approaches E. Abdalla [and others]

**Editorial:** Berlin New York Springer-Verlag 1994

**Descripción física:** 1 recurs electrònic (ix, 319 pages)

**Tipo Audiovisual:** Quantum gravity Supergravity String models Sturm-Liouville equation Numerical solutions Mathematical physics Mathematical physics. fast Quantum gravity. fast String models. fast Sturm-Liouville equation Numerical solutions. fast Supergravity. fast Supergravitatie. gtt Snaartheorie. gtt Kwantumgravitatie. gtt Sturm-Liouville equation. gtt Tweedimensionale systemen. gtt

**Mención de serie:** Lecture notes in physics. New series m, monographs 0940-7677 m20

**Bibliografía:** Includes bibliographical references (pages 309-316) and index

**Restricciones de acceso:** Use copy. Restrictions unspecified star. MiAaHDL

**Detalles del sistema:** Master and use copy. Digital master created according to Benchmark for Faithful Digital Reproductions of Monographs and Serials, Version 1. Digital Library Federation, December 2002. <http://purl.oclc.org/DLF/benchreproto212> MiAaHDL

**Nota de acción:** digitized 2010. HathiTrust Digital Library committed to preserve pda MiAaHDL

**ISBN:** 9783540483366 electronic bk.) 3540483365 electronic bk.) 0387578056 9780387578057 3540578056  
9783540578055

**Autores:** Abdalla, Elcio

**Punto acceso adicional serie-Título:** Lecture notes in physics. New series m Monographs m20 SpringerLink  
eBooks

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