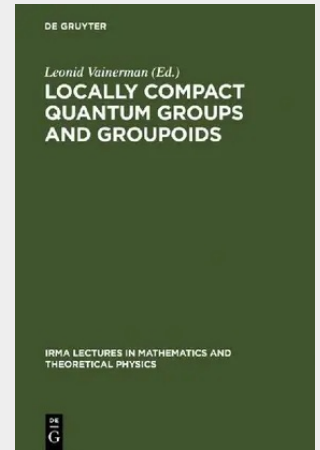


Locally Compact Quantum Groups and Groupoids

Proceedings of the Meeting of Theoretical Physicists and Mathematicians, Strasbourg, February 21-23, 2002

The book contains seven refereed research papers on locally compact quantum groups and groupoids by leading experts in the respective fields. These contributions are based on talks presented on the occasion of the meeting between mathematicians and theoretical physicists held in Strasbourg from February 21 to February 23, 2002. Topics covered are: various constructions of locally compact quantum groups and their multiplicative unitaries; duality theory for locally compact quantum groups; combinatorial quantization of flat connections associated with $SL(2, \mathbb{C})$; quantum groupoids, especially coming from Depth 2 Extensions of von Neumann algebras, C^* -algebras and Rings. Many mathematical results are motivated by problems in theoretical physics. Historical remarks set the results presented in perspective. Directed at research mathematicians and theoretical physicists as well as graduate students, the volume will give an overview of a field of research in which great progress has been achieved in the last few years, with new ties to many other areas of mathematics and physics.

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119,95 €

112,10 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783110176902

Medium: Buch

ISBN: 978-3-11-017690-2

Verlag: De Gruyter

Erscheinungstermin: 11.12.2002

Sprache(n): Englisch

Auflage: Nachdruck 2010

Serie: IRMA Lectures in Mathematics and Theoretical Physics

Produktform: Gebunden

Gewicht: 587 g

Seiten: 247

Format (B x H): 160 x 236 mm

