

**Who produces scientific  
information services that are**

**MULTIDISCIPLINARY  
CURRENT  
ECONOMICAL  
EASY TO USE  
HIGHLY EFFECTIVE?**

**The Institute for Scientific Information.** Expert at providing researchers and scholars in nearly every scientific and technical discipline with the journal information they need. When they need it. Economically.

**We do.**

ISI literally makes the world's scientific literature work for you. To upgrade your research. To save you and your organization time and money. And to improve your professional performance and standing.

ISI now covers more than 4,000 key journals. We cover them quickly and completely. And we retrieve the material they contain better than anybody else.

Our information services are now sixteen in number. For full details, send for a free copy of our new brochure.

**isi<sup>®</sup>**

**INSTITUTE FOR SCIENTIFIC INFORMATION**

Dept. 310, 325 Chestnut St., Phila., Pa. 19106, USA  
Tel.: (215) 923-3300. Telex: 84-5305. Cable: SCINFO

132 High Street, Uxbridge, Middlesex, UK

Telephone: Uxbridge 30085. Telex: 933693 ©1971 ISI

The journal you are reading and 4000 others are regularly covered in *CURRENT CONTENTS*.<sup>®</sup>

# Communications in Mathematical Physics

Volume 26 · Number 1 · 1972

---

## Contents

Garrison, J. C., Wong, J.: Bogoliubov Inequalities for Infinite Systems	1
Fisher, M. E.: On Discontinuity of the Pressure	6
Domokos, G.: Wave Packet Realization of Lightlike States	15
Shikin, I. S.: Gravitational Fields with Groups of Motions on Two-dimensional Transitivity Hypersurfaces in a Model with Matter and a Magnetic Field	24
Yodzis, P.: Lorentz Cobordism	39
Penrose, O., Smith, E. R.: Thermodynamic Limit for Classical Systems with Coulomb Interactions in a Constant External Field	53
Ludwig, G.: An Improved Formulation of Some Theorems and Axioms in the Axiomatic Foundation of the Hilbert Space Structure of Quantum Mechanics	78

Indexed in Current Contents

---

Responsible for advertisements:

Edgar Seidler, D 1000 Berlin 15, Kurfürstendamm 237

Telephone: (03 11) 8 83 37 55, Telex 01-82811

Springer-Verlag, Berlin · Heidelberg · New York

Printers: Brühlsche Universitätsdruckerei, Gießen

Printed in Germany — © by Springer-Verlag Berlin · Heidelberg 1972