

**THESIS SUBMITTED FOR THE DEGREE OF
DOCTOR OF SCIENCE**

**Part I. Study of the Hyperfine
Structure of Spectral Lines.**

**Part II. Study of the Nature of the
Solid and the Liquid States.**

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By

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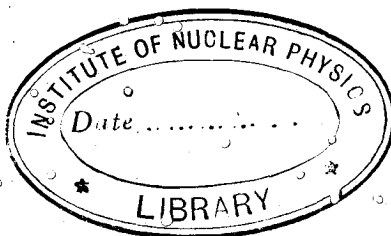
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The thesis embodies the contributions
of the author to the following topics:

PART I. Study of the HYPERFINE STRUC-
TURE of spectral lines of ele-
ments in relation to their nu-
clear spin and isotopic consti-
tution.

PART II. Study of the nature of the
SOLID AND THE LIQUID STATES from
experimental investigations on
light-scattering and magnetic
susceptibility.
