

THE DENSITY-FUNCTIONAL THEORY OF SYSTEMS WITH NONINTEGER
PARTICLE NUMBERS AND THE RELEVANCE OF THE GRADIENT
EXPANSION TO ATOMS AND MOLECULES

A DISSERTATION
SUBMITTED ON THE TWENTY-NINTH DAY OF MARCH, 2007
TO THE DEPARTMENT OF PHYSICS
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
OF THE SCHOOL OF SCIENCE AND ENGINEERING
OF TULANE UNIVERSITY
FOR THE DEGREE
OF
DOCTOR OF PHILOSOPHY
BY

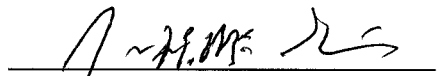


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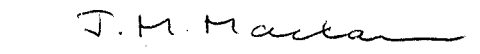
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Biography

The author was born in Drammen, Norway in 1973. He grew up in Lierskogen, Norway. During his childhood he had some shorter stays in the United States. He received his master's degree from the Department of Physics at the University of Oslo in 2001.

The author is married and has two children.