XVI International Symposium on Electron Molecule Collisions and Swarms 2009

Journal of Physics: Conference Series Volume 204

Toronto, Ontario, Canada 29 July - 1 August 2009

ISBN: 978-1-61738-273-4

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2009) by the Institute of Physics All rights reserved.

Printed by Curran Associates, Inc. (2010)

For permission requests, please contact the Institute of Physics at the address below.

Institute of Physics Dirac House, Temple Back Bristol BS1 6BE UK

Phone: 44 1 17 929 7481 Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400

Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

TABLE OF CONTENTS

PAPERS

Electron-driven Excitation and Dissociation of Molecules	
S Chourou, Å Larson, A E Orel	
The Vibrational Excitation of Hot Molecules by Low Energy Electron Impact	8
H Kato, M Ohkawa, M Hoshino, L Campbell, M J Brunger, H Tanaka	
Electron Impact Processes in Nitrogen Rich Atmospheres of the Outer Solar System	13
P V Johnson, J A Young, C P Malone, M A Khakoo, X Liu, I Kanik	
Recent Progress in the Theory of Dissociative Attachment: From Diatomics to Biomolecules	18
Ilya I Fabrikant	
Electron Stimulated Desorption of Anions Containing Oxygen and Nitrogen from Self-assembled	
Monolayers of DNA	29
N Mirsaleh-Kohan, A D Bass, P Cloutier, L Sanche	
Three-body Effects in Dissociative Recombination of Molecular Ions	36
Rainer Johnsen	
Calculation to a Prescribed Accuracy of the Transport Cross Sections for Collisions Between	
Structureless Particles	40
Larry A Viehland, Yongbin Chang	
Mobility of a Li ⁺ Ion Attached to 2-butanol in He Gas	44
Shiro Matoba, Tetsuo Koizumi, Takao M Kojima, Hajime Tanuma	
Author Index	