12th International Workshop on Electric Probes in Magnetized Plasmas (IWEP 2017)

Journal of Physics: Conference Series Volume 958

Naklo, Slovenia 4 – 7 September 2017

ISBN: 978-1-5108-5849-7

ISSN: 1742-6588

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© (2017) by the Institute of Physics All rights reserved. The material featured in this book is subject to IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2018)

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: 845-758-2633

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

Table of contents

Volume 958

12th International Workshop on Electric Probes in Magnetized Plasmas 2017 (IWEP 2017)

4-7 September 2017, Naklo, Slovenia

Accepted papers received: 16 January 2018

Published online: 12 February 2018

Preface

12th International Workshop on Electric Probes in Magnetized Plasmas 2017 (IWEP 2017)

Peer review statement

Papers

<u>Current-Voltage and Floating-Potential characteristics of cylindrical emissive probes</u> from a full-kinetic model based on the orbital motion theory

Xin Chen and Gonzalo Sánchez-Arriaga.....1

Multiprobe characterization of plasma flows for space propulsion

Julius Damba, P. Argente, P. E. Maldonado, A. Cervone, J. L. Domenech-Garret and L. Conde.....12

Feasibility, strategy, methodology, and analysis of probe measurements in plasma under high gas pressure

V I Demidov, M E Koepke, I P Kurlyandskaya and M A Malkov.....21

Kinetic Analysis of Weakly ionized Plasmas in presence of collecting walls

J. Gonzalez and J. M. Donoso.....36

<u>Determination of Anisotropic Ion Velocity Distribution Function in Intrinsic Gas Plasma.</u> Theory.

A Mustafaev, A Grabovskiy, O Murillo and V Soukhomlinov.....44

RF plasma probe diagnostics: a method for eliminating measurement errors for Langmuir probes with bare protective shields

V A Riaby, P E Masherov, V P Savinov and V G Yakunin.....59

Some experiments with the tunnel probe in a low temperature magnetized plasma

J. Kovačič, T. Gyergyek, B. Kavaš, M. Vodnik, J. Kavčič and J. P. Gunn.....73