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**Mobility of Ar<sup>(+)</sup> IN Ar/CF<sub>4</sub><sup>1</sup>** ZELJKA NIKITOVIC, VLADIMIR STOJANOVIC, ZORAN RASPOPOVIC, ZORAN LJ. PETROVIC, Institute of Physics, University of Belgrade, Belgrade, Serbia — In this paper we present a cross section sets for Ar<sup>(+)</sup> in Ar/CF<sub>4</sub> where existing experimentally obtained data are selected and extrapolated. Monte Carlo code is applied to accurately calculate transport coefficients in hydrodynamic regime. We discuss new data for Ar<sup>(+)</sup> ions in Ar/CF<sub>4</sub> where flux and bulk values of reduced mobility are given as a function of reduced electric field E/N (E-electric field, N-gas density).

<sup>1</sup>Results obtained in the Institute of Physics University of Belgrade under the auspices of the Ministry of Education, Science and Technology, Projects No. 171037 and 410011.

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