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¹H. Petcheck and S. Byron, *Ann. of Phys.* **1**, 270 (1957).

²H. S. Johnston and W. M. Kornegay, *Trans. Faraday Soc.* **57**, 1563 (1961).

³K. E. Harwell and R. G. Jahn, *Phys. of Fluids* **27**, 214 (1964).

⁴A. J. Kelly, *J. Chem. Phys.* **45**, 1723 (1966).

⁵G. I. Kozlov, Yu. P. Raizer, and D. I. Roitenburg, *Prikl. Mat. Teor. Fiz.* **1**, 140 (1968).

⁶T. I. McLaren and R. M. Hobson, *Phys. of Fluids* **11**, 2162 (1968).

⁷J. A. Smith, *Phys. of Fluids* **11**, 2150 (1968).

⁸G. K. Tumakaev and V. R. Lazovskaya, VIII Intern. Conf. on Phenomena in Ionized Gases, Vienna, 1968.

⁹C. W. Allen, *Astrophysical Quantities*, Oxford Univ. Press, 1963.

¹⁰W. L. Karsas and R. Latter, *Astrophys. J. Suppl.* **6**, 167 (1961).

¹¹D. R. Bates, A. E. Kingston, and R. W. P. McWhirter, *Proc. Roy. Soc.* **A267**, 297 (1962).

¹²H. Griem, *Plasma Spectroscopy*, McGraw, 1964.

¹³A. J. Dixon and A. Von Engel, *Int. J. Electronics* **25**, 233 (1968).

¹⁴C. J. Chen, *J. Chem. Phys.* **50**, 1560 (1969).

¹⁵L. P. Pitaevskii, *Zh. Eksp. Teor. Fiz.* **42**, 1326 (1962) [*Sov. Phys.-JETP* **15**, 919 (1962)].

¹⁶A. V. Gurevich and L. P. Pitaevskii, *ibid.* **46**, 1281 (1964) [**19**, 870 (1964)].

¹⁷L. M. Biberman, V. S. Vorob'ev, and I. T. Yakubov, *ibid.* **56**, 1992 (1969) [**29**, 1070 (1969)].

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