## SWARTHMORE COLLEGE SWARTHMORE, PENNSYLVANIA 19081

DEPARTMENT OF PHYSICS

July 2, 1975

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Dr. David Pines, Editor Reviews of Modern Physics American Institute of Physics 335 East 45th Street New York, N.Y. 10017

Dear Dr. Pines:

There are several excellent introductory review articles dealing with the physics of, and the searches for, the hypothetical faster-than-light particles. The most recent among these, "Takhiony" by V.S. Barashenkov, appeared in USPEKHI FIZICHESKIKH NAUK, 114, 133-149, September 1974 (in Russian).

At the same time all the more need is felt for a high level review article on the current status of tachyon physics. May I recommend Dr. Edward B. Rockower to you as a potential author for such a review article. He possesses an unusually deep and discerning grasp of this field and he is eminently qualified to write such an article for you on a level commensurate with the high standards of Reviews of Modern Physics. In fact, his Ph.D. dissertation "Generalized Cherenkov Radiation from Tachyonic Sources" (enclosed) could well serve as a basis of such an article. Although the dissertation has a rather specialized title, it includes an excellent review of the whole subject (although I, II, III, pp 1-61) and a critical analysis of experiments so far carried out in the search for tachyons (Ch. V. pp 100-108).

May I suggest that you ask one of your referees to take a look at the enclosed dissertation. If he agrees with my recommendation, you may contact Dr. Idward Rockower at #39, 2500 Ridgmar Blvd., Fort Worth, Texas 76116. I am sure Dr. Rockower would do an excellent job recasting his dissertation in the form of a review article for Review of Modern Physics. At the time he submits the article to you, it would, of course, again be subject to scrutiny by your referees.

Sincerely,

O.M. Bilaniuk

Professor of Physics

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cc: Dr. Edward B. Rockower