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On conditions for the finiteness of the discrete spectrum of the characteristic equations of the radiation transfer theory. (Russian) [Zbl 0552.47009](#)

Mat. Issled. 77, 98-103 (1984).

The authors have published results on the finiteness of the spectrum of perturbed self-adjoint operators [Mat. Issled. 47, 35-40 (1978; [Zbl 0425.47008](#))]. Continuing those investigations a condition for the finiteness of the discrete spectrum of the characteristic equation of the radiation transfer theory depending on the modulus of continuity of the dispersion indicatrix is proved.

Reviewer: K.Barckow

MSC:

- [47A55](#) Perturbation theory of linear operators
- [47A10](#) Spectrum, resolvent
- [47B25](#) Linear symmetric and selfadjoint operators (unbounded)
- [82C70](#) Transport processes in time-dependent statistical mechanics

Cited in **1** Document

Keywords:

finiteness of the spectrum of perturbed self-adjoint operators; finiteness of the discrete spectrum; characteristic equation of the radiation transfer theory; modulus of continuity of the dispersion indicatrix