1167-35-314   **Peter Kuchment*** (`kuchment@math.tamu.edu`), Mathematics Department, Texas A&M University, Ireland Str. TAMU 3368, College Station, TX 77843-3368, and **Jari Taskinen**.
Dispersion relations and spectra of periodically perforated structures.

We establish absolute continuity of the spectrum of a periodic Schrödiner operator in R^n with periodic perforations. We also prove analytic dependence of the dispersion relation on the shape of the perforation. (Received March 09, 2021)