1100-11-109   **Igor E Pritsker*** (`igor@math.okstate.edu`), Department of Mathematics, 401 MSCS,
Oklahoma State University, Stillwater, OK 74078. *Asymptotic distribution and symmetric means
of algebraic numbers.*

Schur introduced the problem on the smallest limit point for the arithmetic means of totally positive conjugate algebraic integers. This area was developed further by Siegel, Smyth and others. We consider several generalizations of the problem that include questions on the smallest limit points of symmetric means. The key tool used in the study is the asymptotic distribution of algebraic numbers understood via the weak* limits of their counting measures. We establish interesting properties of the limiting measures, and find the smallest limit points of symmetric means for totally positive algebraic numbers of small height. (Received February 03, 2014)