1057-35-148 Roman G. Shterenberg* (shterenb@math.uab.edu), Department of Mathematics, University of Alabama at Birmingham, Campbell Hall, 1300 University Boulevard, Birmingham, AL 35294-1170, and Leonid Parnovski (Leonid@math.ucl.ac.uk), Department of Mathematics, University College London, Gower Street, London, WC1E 6BT. Asymptotic expansion of the integrated density of states of a periodic or quasi-periodic Schrodinger operator. Preliminary report.

We discuss the complete asymptotic expansion of the integrated density of states of a Schrödinger operator with a smooth periodic or special quasi-periodic potential. (Received January 19, 2010)