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Sergey Morozov, **Leonid Parnovski** and **Roman Shterenberg*** (rshterenberg@gmail.com),
Department of Mathematics, University of Alabama at Birmingham, 1300 University Blvd.,
Birmingham, AL 35216. *Complete asymptotic expansion of the integrated density of states of
multi-dimensional almost-periodic pseudo-differential operators.* Preliminary report.

We find the complete asymptotic expansion of the integrated density of states of operators of the form $H = (-\Delta)^w + B$ in \mathbb{R}^d . Here $w > 0$ and B is an almost-periodic self-adjoint pseudo-differential operator of order less than $2w$. We assume that for high momenta the symbol of B can be approximated by a sum of homogeneous functions of the momenta. (Received January 03, 2012)