HEAT TRACE ASYMPTOTICS FOR SCHRÖDINGER OPERATORS

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We present some result on higher order asymptotics for the trace difference of non-local Schrödinger operators on $\mathbb{R}^d$, $d \geq 1$. In particular, we discuss versions of M. van den Berg's two-term asymptotics when the Laplacian is replaced by the fractional Laplacian, the relativistic stable Laplacian and the mixed stable Laplacian. Some results for domains in $\mathbb{R}^d$ of finite volume will be stated and (time permitting) the connections to the Weyl's asymptotics law will be mentioned.