

Abstract of paper [1].

We give an alternative proof of the well-known estimate $J(X, h) = o(Xh^2)$ for the Selberg integral

$$J(X, h) := \int_X^{2X} |\psi(t) - \psi(t - h) - h|^2 dt$$

when $h \geq X^{1/6+\varepsilon}$, by means of Heath-Brown's identity.

References

- [1] A. Zaccagnini. On the Selberg integral via Heath-Brown's identity. *Riv. Mat. Univ. Parma*, 5:205–212, 1996.