ON THE MODULAR INTEGRALS

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Abstract. Let f be an entire modular integral on $\Gamma(1)$ of weight k. We investigate necessary and sufficient conditions for $f(\tau^m)$ to be a modular integral on $\Gamma(1)$ of weight mk. We deduce some relations among the Mellin transforms of functions $f(\tau)$, $f(\tau^m)$ and $f(\tau^m/m', \chi)$. We rewrite without proof some theorems from [4] and [5] for the function $f(\tau^m)$ and the subgroup $\Gamma_*^0(N)$.

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