

1106-VK-1498 **Javad Namazi*** (namazi@fdu.edu), 285 Madison Avenue, Madison, NJ 07940. *A Note on Riesz Means*. Preliminary report.

The Riesz mean $\sigma_T^{\alpha,\gamma}$ is defined as

$$\sigma_T^{\alpha,\gamma} = \left(\frac{\alpha\gamma}{T}\right) \int_0^T \left(1 - \left(\frac{t}{T}\right)^\gamma\right)^{\alpha-1} \left(\frac{t}{T}\right)^{\gamma-1} s_t f(x) dt, \quad T > 0$$

where $t > 0, \alpha > 0, \gamma > 0$, and $s_t f(x)$ is the Dirichlet integral of $f \in L^p(\mathbb{R})$, the Lebesgue space for $0 < p < \infty$. We discuss some properties of the Riesz means and its special relationship with the Hardy spaces $H^p(\mathbb{R})$. (Received September 13, 2014)