

**Jürgen Müller** , (Trier, Germany)

*Mean-periodicity and cyclicity of entire functions*

Every entire function  $\Phi(w) = \sum_{\nu=0}^{\infty} a_{\nu} w^{\nu}$  of exponential type induces an infinite order differential operator  $T = \Phi(D) = \sum_{\nu=0}^{\infty} a_{\nu} D^{\nu}$  on the space of entire functions. An entire function is called mean-periodic, if it belongs to the kernel of some  $T \neq 0$ . We shall investigate the dichotomy of mean-periodicity and (hyper-)cyclicity of entire functions.