Igor Chyzhykov (Lviv, Ukraine)

BOUNDED UNIFORM APPROXIMATION OF SUBHARMONIC FUNCTIONS BY LOGARITHMS OF MODULI OF ANALYTIC ONES

We indicate general regularity conditions on the Riesz measure of a subharmonic function u in the complex plane or in the unit disc that provide uniform approximation of u by $\ln|f|$ up to a bounded value where f is analytic in the same domain. These regularity conditions do not restrict the growth of the subharmonic function.

Joint work with Yurii Lyubarskii.