

Meeting: 1007, Santa Barbara, California, SS 12A, Special Session on Function Theory

1007-30-43 **Genrikh Ts. Tumarkin*** (tumarkin@earthlink.net). *Local Convergence of Boundary Values and the Behaviour inside Domain of Sequences of Meromorphic Functions*. Preliminary report.

The report will include further generalizations of my earlier complements of the known theorem Khinchin-Ostrowski on the convergent sequences of analytical functions of Nevanlinna class. We consider now the sequences of meromorphic functions from Nevanlinna class N with uniformly bounded (in logarithmic metrics) integrals of their boundary values. The connections between local convergence of boundary values and behaviour of functions inside domain are fully investigated. Applications of these results to the approximation theory, generalized analytical continuation, invariant subspaces will be included. (Received December 30, 2004)