1172-41-91   **Liudmyla Kryvonos*** (`lkryvono@kent.edu`). *"Near-best" polynomial approximation of harmonic functions on compact sets in* $\mathbb{C}$.

For a function u that is continuous on a compact set K and harmonic in its interior we construct a sequence of polynomial approximants that give almost optimal rate of approximation on K, and in the interior points of K converge faster than on the whole of K. We also show that the geometric convergence inside K is possible for sets whose boundary is an analytically bounded Jordan domain. (Received August 18, 2021)