

## BOUNDARY BEHAVIOR OF OPTIMAL APPROXIMANTS

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We compute the Taylor coefficients of  $p_n f - 1$ , where  $p_n$  denotes the optimal approximant of degree  $n$  to  $1/f$  in a Hilbert space of analytic functions over the unit disc  $\mathbb{D}$ , and  $f$  is a polynomial of degree  $d$  with  $d$  simple zeros. As an application, we show that the sequence  $p_n f - 1$  is uniformly bounded and, if  $f$  has no zeros inside the disc, the values of  $p_n f - 1$  converge locally uniformly towards 0 at every point of the boundary except the zeros of  $f$ .