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## Universal series constructed with the help of the Riemann zeta-function

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In 1951, A. E. Seleznev showed the existence of a universally overconvergent power series  $\sum c_n z^n$ . For every compact set  $K \subset \mathbb{C}$  disjoint from 0 and with connected complement and for every holomorphic function  $f$  on  $K$ , there is a subsequence of the partial sums of  $\sum c_n z^n$  which converges to  $f$  uniformly on  $K$ . Recently, my student Clouâtre obtained a similar result in  $\mathbb{C}^n$  for polynomially convex compacta. My student Poirier showed how to obtain such a universal series using the function  $\Sigma(z) = \zeta(z_1), \zeta(z_2), \dots, \zeta(z_n)$  in  $\mathbb{C}^n$  and in particular the Riemann zeta-function in  $\mathbb{C}$ .