

Approximation by: Riemann zeta-function; polynomials (rational functions) with constrained zeros (poles)

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Andersson showed that an improvement of the spectacular theorem of Voronin on the universality of the Riemann zeta-function is equivalent to a natural problem on polynomial approximation with constrained zeros. Classical approximation is by rational functions with constrained poles. We consider meromorphic approximation with constrained poles on Riemann surfaces, bearing in mind that poles and zeros have a similar nature for meromorphic functions. Any new results are jointly with Fatemeh Sharifi.