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On holomorphic k-differentials on open Riemann surfaces

Let  $\Sigma$  be a hyperbolic Riemann surface, we study the spaces of integrable, square integrable and bounded holomorphic kdifferentials on  $\Sigma - \Lambda$ , where  $\Lambda$  is a closed subset of  $\Sigma$ , and k > 1 is an integer. The main result will provide a description of the kernel of the Poincaré series map.

This is joint work with T. Foth.