

**families of riemann surfaces and weil-petersson geometry** - families of riemann surfaces and weil-petersson geometry scott a. wolpert april 11, 2008 1 considerations the investigation of the geometry and deformation theory of riemann surfaces is long recognized for involving a wide range of concepts and a wide range of techniques. for surfaces of negative euler characteristic, the weil-

**families of riemann surfaces and weil-petersson geometry** - on families of riemann surfaces and weil-petersson geometry held at central connecticut state university, new britain, ct july 20-24, 2009 partially supported by the national science foundation. the author acknowledges support from the conference board of **regional conference series in mathematics - ams** - regional conference series in mathematics american mathematical society with support from the national science foundation number 113 cbms families of riemann surfaces and weil-petersson geometry scott a. wolpert cbms-113-wolpert-covdd 1 4/29/10 9:54 am **a hilbert manifold structure on the weil-petersson class ...** - together with the theory of marked holomorphic families of riemann surfaces (see for example ... weil-petersson class case, the fibers are complex hilbert manifolds [24, 25]. 1991 mathematics subject classification. primary 30f60 ; secondary 30c55, 30c62, 32g15, 46e20, 81t40. **geometry of the weil-petersson completion of teichmüller space ...** - the weil-petersson (wp) metric for  $T$  is a kahler metric with negative sectional curvature [4, 35, 36, 41]. ... a stratified non locally compact space, is the space of marked noded riemann surfaces and is a bordification of  $T$  in the style of ... ingredient was the use of an improved estimate for degenerating families of hyperbolic metrics ... **arxiv:0809.0058v3 [math] 30 jun 2010** - weil-petersson geometry for families of hyperbolic conical riemann surfaces georg schumacher and stefano trapani abstract. we study the weil-petersson geometry for holomorphic families of riemann surfaces equipped with the unique conical metric of constant curvature  $\tilde{\phi}^2$ . 1. introduction recently hyperbolic structures on weighted punctured ... **harmonic mappings and moduli spaces of riemann surfaces** - harmonic mappings and moduli spaces of riemann surfaces Jürgen Jost and Shing-Tung Yau 1. introduction ... these holomorphic maps then correspond to families of riemann surfaces. also, while a harmonic map to a riemann surface in general is not ... **harmonic mappings and moduli spaces of riemann surfaces 175 a research brief on the weil-petersson metric** - a research brief on the weil-petersson metric scott a. wolpert march 15, 2000 a. weil introduced a kahler metric for the teichmüller space  $T_{g,n}$ , the space of homotopy marked riemann surfaces of genus  $g$  with  $n$  punctures and **riemann surfaces and algebraic curves** - riemann surfaces and algebraic curves jwr tuesday december 11, 2001, 9:03 am we describe the relation between algebraic curves and riemann surfaces. an elementary reference for this material is [1]. 1 riemann surfaces 1.1. a riemann surface is a smooth complex manifold  $X$  (without boundary) of complex dimension one. let  $K_X$  denote the canonical ... **Sorfdolqgh[wkhrupiruidplolhvri rshudwruvrq on ...** - a local index theorem for families of 3-operators on riemann surfaces p.g. Zograf and I.A. Takhtadzhyan contents introduction 169 § 1. laplacians on a riemann surface 172 §2. variational formulae 175 ... , the weil-petersson metric. thus, we derive the local index theorem in a **arxiv:0809.0058v2 [math] 16 sep 2008** - weil-petersson geometry for families of hyperbolic conical riemann surfaces georg schumacher and stefano trapani abstract. we study the weil-petersson geometry for holomorphic families of riemann surfaces equipped with the unique conical metric of constant curvature  $\tilde{\phi}^2$ . 1. introduction recently hyperbolic structures on weighted punctured ... **on asymptotic weil-petersson geometry of teichmüller space ...** - teichmüller space of riemann surfaces ... the weil-petersson metric on teichmüller space is naturally defined by duality ... we construct families of maps which have small tension, and are close to the harmonic maps resulting from pinching and twisting process in §3.2; naturally in ... **moduli space of smoothable kahler-einstein q-fano varieties** - case of riemann surfaces. weil-petersson metric:  $g_2$  weil-petersson metric ! wp: for any hyperbolic metric  $h$  on  $g$ ,  $! wp(v) = z g_{j\bar{j}} dv^j dv^{\bar{j}}$  ;  $v^2 h_1$  ...  $c = 3$ : 105 deformation families 4 hypersurface in  $\mathbb{P}^{n+1}$  of degree  $n + 1$ ; kahler-einstein metrics kahler-einstein on fano manifolds.

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