

### **analytic and plurisubharmonic functions pdf**

PLURISUBHARMONIC FUNCTIONS AND ANALYTIC DISCS ON MANIFOLDS Finnur Lar usson and Ragnar Sigurdsson 25 May 1998 Abstract. Let  $X$  be a complex manifold and  $AX$  be the family of maps  $D \rightarrow X$  which are holomorphic in a neighbourhood of the closure of the unit disc  $D$ . Such maps are called (closed) analytic discs in  $X$ . A disc functional on  $X$  is a map  $H : AX \rightarrow \mathbb{R}$  [ f1g .

### **PLURISUBHARMONIC FUNCTIONS AND ANALYTIC DISCS ON MANIFOLDS**

plurisubharmonic function thus defines a real-valued function on the set  $V$  of valuations on  $\mathbb{R}$  and  $\hat{\mu}$  by way of a natural Laplace operator defined in terms of the tree structure on  $V$   $\hat{\mu}$  a positive measure on  $V$ .

### **Valuative analysis of planar plurisubharmonic functions**

delve into some functional analysis in several dimensions in order to provide a glimpse of this. 3 Toward Plurisubharmonicity 3.1 Harmonic and Subharmonic functions We define upper-semicontinuous, harmonic, subharmonic, and plurisubharmonic functions, though the reader probably has some familiarity with the first two concepts already.

### **Plurisubharmonic Functions and Pseudoconvex Domains**

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### **(PDF) Analytic approximation of plurisubharmonic singularities**

Analytic and Plurisubharmonic Functions In Finite and Infinite Dimensional Spaces. Course Given at the University of Maryland, Spring 1970 ... PDF; ebooks can be used on all reading devices; ... Complex analysis in infinite dimensional vector spaces. Hervé, Michel. Pages 56-90.

### **Analytic and Plurisubharmonic Functions - In Finite and**

not, and the plurisubharmonic functions form a class which is biholomorphically invariant and can be defined on any complex analytic manifold. A basic example of a plurisubharmonic function is  $\log |z|$ , where  $c$  is a

### **Plurisubharmonic functions and potential theory in several**

Question 1.1. ([1, 2]). For  $\hat{\mu} > 1$  and  $\hat{\mu}$  a general quasi-plurisubharmonic function on  $X$ , is the analytic adjoint ideal sheaf  $\text{Adj}_{\hat{\mu}} D(\hat{\mu})$  coherent? In this article, we will present the following negative answer to Question 1.1. Date: April 26, 2016. 2010 Mathematics Subject Classification. 32C25, 32C35, 32U05.

### **ANALYTIC ADJOINT IDEAL SHEAVES ASSOCIATED TO**

We study classes of singularities of plurisubharmonic functions that can be approximated by analytic singularities with control over the residual Monge-Ampère masses.

### **Asymptotically analytic and other plurisubharmonic**

In complex analysis, plurisubharmonic functions are used to describe pseudoconvex domains, domains of holomorphy and Stein manifolds. Oka theorem [ edit ] The main geometric application of the theory of

plurisubharmonic functions is the famous theorem proven by Kiyoshi Oka in 1942.

### **Plurisubharmonic function - Wikipedia**

geometric condition on an analytic variety near a real point  $\tilde{E}$  which guarantees that any plurisubharmonic function  $u$  on the variety that vanishes on its real points can grow only linearly,  $u(z) = O(|z - \tilde{E}|^j)$ , near  $\tilde{E}$ .

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