

Lectures on

Imaginary time in Kähler geometry, quantization and tropical amoebas

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Lecture 1 (29/11)

§1 Introduction

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§2 Definitions of complex time Hamiltonian flows and some results -

1.4

Lecture 2 (2/12)

§3 First examples of Kähler tropicalization: \mathbb{C}^* and \mathbb{C}

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3.1 Summary of the section

2.1

3.2 Kähler tropicalization of \mathbb{C}^*

2.3

Lecture 3 (9/12)

3.3 Kähler tropicalization of \mathbb{C}

3.1

§4

"Actions" [symplectic and complex] of G_C on spaces of Kähler structures and their orbits. Symplectic and complex pictures

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References for Lectures 1-3

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(see also the bibliography of the Seminar)

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Summary

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5.4

Choice of $\dot{k}_0 = g_0 \in C_{T^n}^0(M_p)$, the geodesic k_s and tropicalization

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C^0 -Kähler tropicalization and the $K_B \rightarrow \infty$ limit (to be added)

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