"Kaehler geometry of toric symplectic manifolds in action-angle coordinates"

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Abstract:

After an introduction to toric symplectic manifolds, I will present an action-angle coordinates approach to toric Kaehler geometry [1] and discuss applications to quantization and tropicalization of compact toric symplectic manifolds [2].

References:

[1] M. Abreu, Kaehler geometry of toric manifolds in symplectic coordinates, in "Symplectic and Contact Topology: Interactions and Perspectives" (eds. Y. Eliashberg, B. Khesin and F. Lalonde), Fields Institute Communications 35, American Mathematical Society, 2003, pp. 1-24. math.DG/0004122

[2] T. Baier, C. Florentino, J. Mourao, and J. P. Nunes, Toric Kahler metrics seen from infinity, quantization and compact tropical amoebas, J. Differential Geom. 89 (2011), 411-454. arXiv:0806.0606