## Pfaff systems, currents and hulls Nessim Sibony

## Abstract.

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Let S be a Pfaff system of dimension 1, on a compact complex manifold M. We prove that there is a positive ddbar-closed current T of mass 1 directed by the Pfaff system S. There is no integrability assumption. We also show that local singular solutions exist always.

Using  $\partial \partial$ -negative currents, we discuss Jensen measures, local maximum principle and hulls with respect to a cone  $\mathcal{P}$  of smooth functions in the Euclidean complex space, subharmonic in some directions. The case where  $\mathcal{P}$  is the cone of plurisubharmonic functions is classical. We use the results to describe the harmonicity properties of the solutions of equations of homogeneous, Monge-Ampère type.