

Local pointwise and Harnack estimate for solutions of the σ_k equation.
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In this talk we will described some recent work on local pointwise and Harnack estimates for solutions of the fully nonlinear conformal equation $\sigma_k(g_0^{-1} \circ A_w) = f(x)$ under appropriate L^p conditions on f . As a consequence, we prove local pointwise estimate for solutions of the σ_2 Yamabe problem in dimension 4 under small volume condition.