MC limit histogram of 10000 toys using skInterpBackground and lkMCMC. ukUncertain,  $\sigma s = 0.0276$ ,  $\sigma b = 0.0028$  puUncertain,  $\sigma p = 0.0500$ . Expected limit  $g_a = 9.0650e-11$ 400 candsInSens 350 **-**0 Expected 300 -MC toy count 250 -2 candidates 200 -3 150 -4 0/M 100 -5 imit 50 **-**6 0 ¬ 2e-41 8e-41 1e-40 1.2e-40 1.4e-40 1.6e-40 1.8e-40 2e-40 4e-41 6e-41 Limit  $g_a\gamma^4$  [GeV<sup>-4</sup>]