Study of the Power Deposition in the LHC Low-Beta Inner Triplet for a Nb3Sn Design, G. AMBROSIO, G. BELLOMO, F. BROGGI, L. ROSSI, INFN, LASA Milan - In this paper the power deposed in the Nb3Sn coils of the inner triplet of the LHC low-beta insertions (for a second generation design) is studied as a function of the gradient and of the aperture. Starting from the reference "Yellow Book" case, different configurations: higher gradient in the same aperture or the same gradient in a wider aperture are investigated in order to get the best working conditions, using the better magnetic performance of the Nb3Sn respect to the NbTi. The temperature increase in the coils is then evaluated by ANSYS simulations to check the stability margin of the magnets.