loop

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Contents

Here is a possible polynomial in 4 variables x= (x_1,... x_4)
w_1 is also a vector with 6 components w_1= 1/2, -1/3, +0.25, -1
w_2 is something similar
Polynomial is $(0.3(w_1\{x\} + w_2\{x\})^2 - 0.75(w_3\{x\} + w_4\{x\})^2)^2$
this is sparse not in monomials but in terms like $w_1\{x\}$
this is a quadratic function on a binary tree