WEPD – Type I [92, 46, 16]

This is a database of known weight enumerator parameters for singly-even binary self-dual [92, 46, 16] codes.

The possible weight enumerators of a singly-even binary self-dual [92, 46, 16] code are given in [2] as

$$\begin{aligned} W_{92,1} &= 1 + (4692 + 4\alpha)x^{16} + (174800 - 8\alpha + 256\beta)x^{18} \\ &\quad + (2425488 - 52\alpha - 2048\beta)x^{20} + \cdots, \\ W_{92,2} &= 1 + (4692 + 4\alpha)x^{16} + (174800 - 8\alpha + 256\beta)x^{18} \\ &\quad + (2441872 - 52\alpha - 2048\beta)x^{20} + \cdots, \\ W_{92,3} &= 1 + (4692 + 4\alpha)x^{16} + (121296 - 8\alpha)x^{18} \\ &\quad + (3213968 - 52\alpha)x^{20} + \cdots, \end{aligned}$$

where $\alpha, \beta \in \mathbb{Z}$.

See the links below for lists of known values of (α, β) for $W_{92,1}$ and $W_{92,3}$. It is unknown whether or not a code with weight enumerator $W_{92,2}$ has been reported.

- $W_{92,1}$ known parameters (from [1, 3–6, 8, 10])
- $W_{92,3}$ known parameters (from [7, 9])

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