Table I

2-adic analysis of Type I forms

$$f = f_1 \oplus 2\, f_2 \oplus 4\, f_4 \oplus \cdots,\ n_q = \dim\, f_q$$

$n_1 \geq 3$: [3 @ 1, 4 @ 2] $\to \left[\frac{5}{6}, 1\right]$

$n_1 = 2$, f_2 Type I : [4 @ 1] $\to \left[\frac{2}{3}, 2^{n-2}\right]$

f_2 Type II, $n_2 > 0$: [4 @ 1] or [2 @ 1, 4 @ 2] $\to \left[\frac{2}{3}, 2^{n-2}\right]$

$n_2 = 0$: [4 @ 1] or [2 @ 1, 2 @ 2] $\to \left[\frac{1}{2}, 4^{n-2}\right]$

$n_1 = 1$, f_2 Type I : [2 @ 1, 2 @ 2] $\to \left[\frac{1}{2}, 2^{n-1}\right]$

f_2 Type II, $n_2 > 0$: [2 @ 1, 2 @ 4, 4 @ 8] $\to \left[\frac{1}{2}, 2^{n-1}\right]$

$n_2 = 0$, f_4 Type I : [2 @ 1] $\to \left[\frac{1}{3}, 4^{n-1}\right]$

f_4 Type II, $n_4 > 0$: [1 @ 1, 2 @ 4, 4 @ 8] $\to \left[\frac{1}{3}, 4^{n-1}\right]$

$n_4 = 0$, f_8 Type I : [1 @ 1, 2 @ 8] $\to \left[\frac{5}{24}, 8^{n-1}\right]$

f_8 Type II : [1 @ 1, 1 @ 4, 2 @ 16] $\to \left[\frac{11}{48}, 8^{n-1}\right]$

Table II

2-adic analysis of Type II forms

$$f = f_1 \oplus 2\, f_2 \oplus 4\, f_4 \oplus \cdots,\ n_q = \dim f_q$$

$$\left.\begin{array}{l} n_1 \geq 3 : \\ n_1 = 2,\ \ f_1 \text{ Type I:} \\ \qquad\quad f_2 \text{ Type II},\ n_2 > 0 : \end{array}\right\} [\ 4 @ 2,\ 4 @ 4\ ] \to \left[\frac{1}{2},\ 2\right] \text{ if } n=3,\ \left[\frac{1}{2},\ 1\right] \text{ if } n \geq 4\ (*)$$

$$n_2 = 0,\quad f_4 \text{ Type I} : [\ 4 @ 2,\ 3 @ 4\ ] \to \left[\frac{11}{24},\ 4^{n-2}\right]$$

$$f_4 \text{ Type II},\ n_4 > 0 : [\ 4 @ 2,\ 4 @ 16\ ] \to \left[\frac{3}{8},\ 4^{n-2}\right]$$

$$n_4 = 0,\quad f_8 \text{ Type I} : [\ 4 @ 2,\ 4 @ 16\ ] \to \left[\frac{3}{8},\ 8^{n-2}\right]$$

$$f_8 \text{ Type II},\quad n_8 > 0 : [\ 4 @ 2,\ 4 @ 16\ ] \to \left[\frac{3}{8},\ 8^{n-2}\right]$$

$$n_8 = 0 : [\ 4 @ 2\ ] \to \left[\frac{1}{3},\ 16^{n-2}\right]$$