Table 1: A $\mathbb{Z}$-basis for the space of 2-modular characters of $Sp_6(4)$

| Character | $\lambda(9,6,3)$ | $\lambda(8,6,3)$ | $\lambda(8,5,3)$ | $\lambda(8,5,2)$ | $\lambda(7,6,3)$ | $\lambda(7,5,3)$ | $\lambda(7,5,2)$ | $\lambda(7,4,3)$ | $\lambda(7,4,2)$ | $\lambda(7,4,1)$ | $\lambda(6,6,3)$ | $\lambda(6,5,3)$ | $\lambda(6,5,2)$ | $\lambda(6,4,3)$ | $\lambda(6,4,2)$ | $\lambda(6,4,1)$ | $\lambda(6,3,3)$ | $\lambda(6,3,2)$ | $\lambda(6,3,1)$ | $\lambda(6,3,0)$ | $\lambda(5,5,3)$ | $\lambda(5,5,2)$ | $\lambda(5,4,3)$ | $\lambda(5,4,2)$ | $\lambda(5,4,1)$ | $\lambda(5,3,3)$ | $\lambda(5,3,2)$ | $\lambda(5,3,1)$ | $\lambda(5,3,0)$ | $\lambda(5,2,2)$ | $\lambda(5,2,1)$ | $\lambda(5,2,0)$ | $\lambda(4,4,3)$ | $\lambda(4,4,2)$ | $\lambda(4,4,1)$ | $\lambda(4,3,3)$ | $\lambda(4,3,2)$ | $\lambda(4,3,1)$ | $\lambda(4,3,0)$ | $\lambda(4,2,2)$ | $\lambda(4,2,1)$ | $\lambda(4,2,0)$ | $\lambda(4,1,1)$ | $\lambda(4,1,0)$ | $\lambda(3,3,3)$ | $\lambda(3,3,2)$ | $\lambda(3,3,1)$ | $\lambda(3,3,0)$ | $\lambda(3,2,2)$ | $\lambda(3,2,1)$ | $\lambda(3,2,0)$ | $\lambda(3,1,1)$ | $\lambda(3,1,0)$ | $\lambda(3,0,0)$ | $\lambda(2,2,2)$ | $\lambda(2,2,1)$ | $\lambda(2,2,0)$ | $\lambda(2,1,1)$ | $\lambda(2,1,0)$ | $\lambda(2,0,0)$ | $\lambda(1,1,1)$ | $\lambda(1,1,0)$ | $\lambda(1,0,0)$ | $\lambda(0,0,0)$ |
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