

$$[\mathbb{D}_n^v] \odot [\mathbb{Z}_m \oplus \mathbb{Z}_2^c]$$

m even

m odd

$$[\mathbf{1}], [\mathbb{Z}_d], [\mathbb{Z}_2^{b_i-}]$$

$$[\mathbf{1}], [\mathbb{Z}_d]$$