

The two generator nilpotent Lie algebras with immediate descendants of dimension 8

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$$\langle a, b \mid \text{class } 3 \rangle \tag{5.7}$$

$$\langle a, b \mid baaa, baab, \text{class } 4 \rangle. \tag{6.27}$$

$$\langle a, b \mid baab, baaa + babb, \text{class } 4 \rangle \tag{6.28}$$

$$\langle a, b \mid baab, babb + \omega baaa, \text{class } 4 \rangle. \tag{6.29}$$

$$\langle a, b \mid baaa - \lambda babb, \text{class } 4 \rangle \ (\lambda = 0, 1, \omega). \tag{7.144}$$

$$\langle a, b \mid baa - \lambda babbb, \text{class } 5 \rangle \ (\lambda = 0, 1). \tag{7.145}$$

$$\langle a, b \mid baa - babb, \text{class } 5 \rangle. \tag{7.146}$$

$$\langle a, b \mid baaa, baab, babba, \text{class } 5 \rangle, \tag{7.147}$$

$$\langle a, b \mid baaa, babba, baab - babbb, \text{class } 5 \rangle. \tag{7.148}$$

$$\langle a, b \mid baab, babba, baaa - babbb, \text{class } 5 \rangle. \tag{7.149}$$

$$\langle a, b \mid baa, babba, \text{class } 6 \rangle. \tag{7.165}$$

$$\langle a, b \mid baa - babbbb, babba, \text{class } 6 \rangle. \tag{7.166}$$

$$\langle a, b \mid baa, babba - babbbb, \text{class } 6 \rangle. \tag{7.167}$$

$$\langle a, b \mid baa - babbb, babba, \text{class } 6 \rangle. \tag{7.168}$$

$$\langle a, b \mid baa - babb - babbb, babba, \text{ class } 6 \rangle. \quad (7.169)$$

$$\langle a, b \mid baa - babb, babba - babbb, \text{ class } 6 \rangle. \quad (7.170)$$

$$\langle a, b \mid baa - babb, babba - \lambda babbb, \text{ class } 6 \rangle \ (\lambda \neq 1). \quad (7.171)$$

$$\langle a, b \mid baa - babb - \lambda babbb, babba - babbb, \text{ class } 6 \rangle \ (\lambda = 0, 1, \omega). \quad (7.172)$$