

The Spectral Perspective

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11:08 AM

$$a_{ij}a_{ik}a_{jk} - a_{ji}a_{ik}a_{ij} + \underbrace{[a_{ij}, a_k] + [a_{ij}, a_{ik}] + [a_{ik}, a_k]}_{Y_{ijk}} = 0$$

$$C_{kl}^{ij} \leftrightarrow [a_{ij}, a_{kl}]$$

$$\mathcal{D}: FA \left(\underbrace{a_{ij}}_{\text{height 0}}, \underbrace{Y_{ijk}}_{\text{height 1}}, \underbrace{Y_{kl}^{ij}}_{\text{infinite}} \right)$$

$$\mathcal{D}_0: \text{height 0}$$

$$\mathcal{D}_1: \text{height 1}$$

$$\mathcal{D}: \mathcal{D}_1 \rightarrow \mathcal{D}_0 \text{ by } (\eta, \delta) \mapsto (Y, c)$$

$$\mathcal{D}': \mathcal{D}_1 \rightarrow \mathcal{D}_0 \text{ by } (\eta, \gamma) \mapsto (Y, c)$$

Do these have the same rank?