

The H problem

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$$\begin{array}{c} i \\ \left. \vphantom{i} \right) \\ k \end{array} \xrightarrow{\quad} \begin{array}{c} j \\ \left. \vphantom{j} \right) \\ l \end{array} \xrightarrow[\text{Verification}]{\text{needs}} \begin{array}{l} + t^{ij}(e_l^k + e_k^l) - t^{il}(e_j^k + e_k^j) \\ + t^{kl}(e_j^i + e_i^j) - t^{kj}(e_l^i + e_i^l) \end{array}$$

||

$$\left[\begin{array}{cc} i & j \\ k & l \end{array} \right] \xrightarrow{\alpha} M_{n \times n}(\mathbb{Q}[t_i])$$

Problem. Determine the image of α_r