

$$\frac{d}{dx} \begin{bmatrix} y_1 \\ y_2 \end{bmatrix} = \begin{bmatrix} -y_2 \\ y_1 \end{bmatrix} : \quad \begin{bmatrix} {}^0y_1 \\ {}^0y_2 \end{bmatrix} = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$$

$$\frac{d}{dx} \begin{array}{c} y_1 \\ y_2 \\ y_3 \end{array} = \begin{array}{c|c|c} \lambda & 1 & 0 \\ 0 & \lambda & 1 \\ 0 & 0 & \lambda \end{array} \begin{array}{c} y_1 \\ y_2 \\ y_3 \end{array} \text{ Fund-System von Lsg } \varphi^1 \mid \varphi^2 \mid \varphi^3$$

$${}^0\varphi^1 \mid {}^0\varphi^2 \mid {}^0\varphi^3 = e^2 \mid e^3 \mid -e^1 \text{ Standard-Basis}$$