Summary of symmetry calculations

June 2, 2021

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Chapter 1

$hydons_model$

$Run\ 11_28AM_02_June-2021$

Degree in tangential ansätze: 1

The reaction terms are:

$$\frac{\mathrm{d}y_1}{\mathrm{d}t} = \frac{ty_1 + y_2^2}{-t^2 + y_1 y_2}$$
$$\frac{\mathrm{d}y_2}{\mathrm{d}t} = \frac{ty_2 + y_1^2}{-t^2 + y_1 y_2}$$

The calculated generator is:

$$X = (K_6 t) \partial t + (K_6 y_1) \partial y_1 + (K_6 y_2) \partial y_2$$
(1.1)