

Summary of symmetry calculations

June 2, 2021

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Chapter 1

hydons_model

Run 11_35AM_02_June-2021

Degree in tangential ansätze: 1

The reaction terms are:

$$\begin{aligned}\frac{dy_1}{dt} &= \frac{ty_1 + y_2^2}{-t^2 + y_1y_2} \\ \frac{dy_2}{dt} &= \frac{ty_2 + y_1^2}{-t^2 + y_1y_2}\end{aligned}$$

The calculated generator is:

$$X = (K_6t) \partial t + (K_6y_1) \partial y_1 + (K_6y_2) \partial y_2 \tag{1.1}$$