

16.66 SSTOOLS: Computations with supersymmetric algebraic and differential expressions

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16.66.1 Overview

A detailed description is available through the online tutorial <https://lie.ac.brocku.ca/crack/susy/>. An essentially equivalent description is available after loading SSTOOLS and issuing the command `sshelp()`. The correct functioning of all procedures is tested through reading in and running `sstools.tst`. This test also illustrates the commutator rules for products of the different fields and their derivatives with respect to bosonic and fermionic variables.

The topics in the tutorial and in `sshelp()` are:

Purpose

Interactive Session

Loading Files

Notation

Initializations

The command `coeffn`

The procedure `SSym`

The procedure `SSConL`

The procedure `FindSSWeights`

The procedure `Linearize`

The procedure `GenSSPoly`

The procedure `ToCoo`

The procedure `ToField`

Discovery of recursion operators

Verification of symmetries

Bibliography

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