

## Group foliation using moving frames

Rob Thomson

School of Mathematics, University of Minnesota, Minneapolis, USA.

The method of group foliation, first proposed by Lie and later developed by Vessiot, provides a technique for using the symmetry group or pseudo-group of a differential equation to find solutions which possess no symmetry. The method has found frequent use for finding new solutions to important physical equations. We'll describe the use of moving frames to accomplish the group foliation algorithm. This algorithm is also closely related to the EDS reduction method recently discovered by Anderson, Fels and Pohjanpelto.