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Conditional Lie Backlund Symmetries and Invariant subspaces of nonlinear parabolic equations

In this talk, we shall discuss the conditional Lie-Backlund symmetries and invariant subspaces of nonlinear parabolic equations. The relationship among conditional Lie-Backlund symmetry, geometric property and Harnack type inequality is investigated. Furthermore, the dimension of invariant subspaces admitted by multi-component nonlinear vector differential operators is estimated.