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Extended Homogeneous Balance Method and Lax Pairs, Backlund Transformation BAI Cheng-Lin

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Abstract: Using the extended homogeneous balance method, which is very concise and primary, Lax pairs and Backlund transformation for most nonlinear evolution equations, such as the compound KdV-Burgers equation and nonlinear diffusion equation are obtained.

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Key words: extended homogeneous balance method, Lax pairs, Backlund

transformation, nonlinear evolution equations

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