

# **Nonlinear Partial Differential Equations**

Boundary value problems and equations arising in fluid mechanics

Stability of periodic traveling waves for a modified b-family  
equation

**Lynnyngs Kelly Arruda**

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This talk is concerned with the orbital stability of periodic traveling wave solutions for a modified b-family equation which includes the modified Camassa-Holm and Degasperis-Procesi equations as special cases. This is joint work together with Alisson Darós Santos.

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