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Milena Stanislavova* (stanis@ku.edu), 405, Snow Hall, Department of Mathematics,
University of Kansas, Lawrence, KS. *Periodic traveling waves of the short pulse equation: existence
and stability.*

We consider various periodic traveling waves solutions of the Ostrovsky/Hunter-Saxton/short pulse equation and its KdV regularized version. For the regularized short pulse model with small Coriolis parameter we describe a family of periodic traveling waves which are perturbation of appropriate KdV solitary waves. We show that these waves are spectrally stable. For the short pulse model, we construct a family of traveling peakons with corner crests. We show that the peakons are spectrally stable as well. (Received September 16, 2015)