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On the stochastic Camassa—Holm equation with transport noise

We will discuss recent work regarding the stochastic Camassa—Holm equation $u_t + uu_x + P_x + \sigma u_x \circ dW = 0$ and $P - P_{xx} = u^2 + u_x^2/2$. În particular, we will show existence of a weak, global, dissipative solution of the Cauchy initial-value problem on the torus. This is joint work with L. Galimberti (King's College), K.H. Karlsen (Oslo), and P.H.C. Pang (NTNU/Oslo).