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Uniqueness for the Camassa-Holm equation

Weak solutions of the Camassa–Holm equation might not be unique due to various admissible prolongations beyond wave breaking. The two most prominent continuations, whose existence can be established with the help of a generalized method of characteristics, are called conservative and dissipative. Here, we will discuss the uniqueness for these solution concepts by establishing a bijection between the properties specific for each solution type and the corresponding solution operator defined via a generalized method of characteristics.