

Soliton and Cuspon Solutions of the Camassa-Holm Equation

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We present the derivation of the soliton and cuspon solutions of the Camassa-Holm equation [1] by the implementation of the dressing method [2]. The form of the one and two soliton/cuspon solutions as well as soliton-cuspon interactions will be discussed.

References

- [1] R. Camassa and D. Holm, An integrable shallow water equation with peaked solitons. *Phys. Rev. Lett.* 71 (1993) 1661–1664; arXiv:patt-sol/9305002
- [2] R. Ivanov, T. Lyons and N. Orr, A dressing method for soliton solutions of the Camassa-Holm equation, arXiv:1702.01128 [nlin.SI].