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Soliton Solution to Schamel-Korteweg-de Vries Equation with Shooting Method

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The Schamel-Korteweg-de Vries (SKdV) equation is the equation which described weakly ion-acoustic wave in cold plasmas. The soliton solution to the Schamel-Korteweg-de Vries equation can be determined by the shooting method. The spectral method is applied to study the time evolution of this solution. This can experimentally confirm that the solution is stable.

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