

Darboux transformations and discrete mKdV equations

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It is well-known that the integrability of certain motions of planar curves give rise to the modified Korteweg-de Vries equation. In this talk, we view those motions as Darboux and infinitesimal Darboux transformations to introduce an efficient route to obtaining the semi-discrete and discrete modified Korteweg-de Vries equation. This talk is based on the joint work with Wayne Rossman and Tomoya Seno at Kobe University.