The Submanifold Geometries associated to Grassmannian Systems

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Abstract

There is a hierarchy of commuting soliton equations associated to each symmetric space U/K. When U/K has rank n, the first n flows in the hierarchy give rise to a natural first order non-linear system of partial differential equations in n variables, the so called U/K-system. Let $G_{m,n}$ denote the Grassmannian of n-dimensional linear subspaces in R^{m+n} , and $G^1_{m,n}$ the Grassmannian of space-like m-dimensional linear subspaces in the Lorentzian space $R^{m+n,1}$. In this paper, we use techniques from soliton theory to study submanifolds in space forms whose Gauss-Codacci equations are gauge equivalent to the $G_{m,n}$ -system or the $G^1_{m,n}$ -system. These include submanifolds with constant sectional curvatures, isothermic surfaces, and submanifolds admitting principal curvature coordinates. The dressing actions of simple elements on the space of solutions of the $G_{m,n}$ and $G^1_{m,n}$ systems correspond to Bäcklund, Darboux and Ribancour transformations for submanifolds.

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