

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^{n+m} , and $G_{m,n}^1$ the Grassmannian of space-like m -dimensional linear subspaces in the Lorentzian space $R^{n+m,1}$. In this paper, we use techniques from soliton theory to study submanifolds in space forms whose Gauss-Codazzi equations are gauge equivalent to the $G_{m,n}$ -system or the $G_{m,n}^1$ -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 $G_{m,n}^1$ systems correspond to Bäcklund, Darboux and Ribaucour transformations for submanifolds.

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