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Changzheng Qu* (czqu@nwu.edu.cn), Department of Mathematics, Northwest University, Xi'an, Shaan Xi 710069, Peoples Rep of China. *Integrable systems and invariant geometric flows in similarity and projective geometries.*

In this talk, the relationship between invariant geometric flows and integrable systems is discussed. It is shown that a couple of integrable equations arise from the curve flows in similarity and projective geometries. The Backlund transformations to the integrable equations are obtained by using the geometric flows. (Received September 23, 2009)