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*A  $q$ -analogue of the Drinfeld-Sokolov hierarchy of type  $A$  and  $q$ -Painlevé system.*

In this talk, we propose a  $q$ -analogue of the Drinfeld-Sokolov hierarchy of type  $A$ . Its similarity reduction implies a class of higher order  $q$ -Painlevé systems, which are generalizations of the  $q$ -Painlevé VI equation given by Jimbo and Sakai. We also discuss a relationship with  $q$ -Painlevé systems and the  $q$ -hypergeometric functions. (Received September 05, 2013)