1125-35-1880   **Stephen Anco*** (`sanco@brocku.ca`), Department of Mathematics & Statistics, Brock University, St Catharines, Ontario L2S3A1, Canada. *Integrable multi-component peakon equations from a modified AKNS scheme.*

The standard AKNS scheme for generating integrable evolution systems is modified to obtain integrable peakon systems. In the simplest case, the modified scheme yields a large family of integrable multi-component peakon equations, together with their recursion operators, symmetries, conservation laws, and bi-Hamiltonian structure. (Received September 19, 2016)