

1143-35-542

**Stephen Anco\*** ([sanco@brocku.ca](mailto:sanco@brocku.ca)), Brock University, St Catharines, ON L2S3A1, Canada. *A family of  $U(1)$ -invariant integrable peakon equations related to the NLS hierarchy.* Preliminary report.

I will report on a family of  $U(1)$ -invariant integrable peakon equations that come from the Hirota hierarchy which sits inside the NLS hierarchy. One of the  $U(1)$ -invariant peakon equations is of NLS type, while another one is of Hirota type. Interesting features of these peakon equations will be presented. (Received August 21, 2018)