

1131-81-47

Razvan Gelca* (rgelca@gmail.com), Department of Mathematics and Statistics, Texas Tech University, 1108 Memorial Circle Drive, Lubbock, TX 79409. *The product-to-sum formula in $SU(2)$ Chern-Simons theory.*

Almost 20 years ago, Ch. Frohman and R. Gelca discovered a product-to-sum formula that governs the multiplication of quantized Wilson lines on the torus in $SU(2)$ Chern-Simons theory. This formula led to many developments in the field, but also to many misunderstandings. The present talk will explain this formula, place it in a general context, clarify the misunderstandings, and discuss possible generalizations. It is based on the work of the speaker, A. Uribe, A. Hamilton, and J. Staff. (Received June 24, 2017)