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**Paul Bruillard** and **Liang Chang\*** (liangchang@math.tamu.edu), Department of Mathematics, Texas A&M University, College Station, TX 77843-3368, and **Cesar Galindo, Seung-Moon Hong, Ian Marshall, Julia Plavnik, Eric Rowell** and **Michael Sun**. *Representations of the loop braid group  $LB_3$ .*

The loop braid group  $LB_3$  is defined as the motion group of 3 unknotted and unlinked oriented circles in  $\mathbb{R}^3$ , which is a generalization of the 3-strand braid group  $B_3$ . In this talk, we will report the recent work on the representations of  $LB_3$  extended from the representations of  $B_3$ . (Received September 15, 2014)