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**Siân Fryer\*** (sianfryer@math.ucsb.edu), **Tina Kanstrup**, **Ellen Kirkman**, **Anne Shepler**  
and **Sarah Witherspoon**. *Color Lie rings and PBW deformations of skew group algebras.*

We examine color Lie rings arising from finite groups of diagonal matrices acting linearly on finite dimensional vector spaces, and show that (under certain conditions) their enveloping algebras are quantum Drinfeld orbifold algebras, i.e. PBW deformations of certain skew group algebras. Conversely, every quantum Drinfeld orbifold algebra of a particular type arising from the action of an abelian group can be realized as the universal enveloping algebra of a color Lie ring. Special cases of these results yield more familiar objects: for example, a Lie superalgebra is simply a color Lie ring with only two colors and base ring  $\mathbb{K}$ . This approach lends itself well to direct computation, and many concrete examples will be given. (Received September 12, 2017)