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Jiafeng Lv, **Sei-Qwon Oh** and **Xingting Wang*** (xingting@temple.edu), Department of Mathematics, Temple University, Philadelphia, PA 19122, and **Xiaolan Yu** and **Guangbin Zhuang**. *Enveloping algebras of Poisson-Ore extensions*.

For any commutative Poisson algebra, we will introduce the concept of a Poisson enveloping algebra, which is an associated algebra whose module category is equivalent to the category of Poisson modules over the corresponding Poisson algebra. We prove that the Poisson enveloping algebra of a (double) Poisson-Ore extension is an iterated double Ore extension. As an application, properties that are preserved under iterated (double) Ore extensions are invariants of the Poisson enveloping algebra of a (double) Poisson-Ore extension. (Received July 14, 2017)