1147-16-203 **Mee Seong Im*** (meeseongim@gmail.com), Thayer Hall, Office 252, Department of Mathematical Sciences, United States Military Academy, West Point, NY 10996, and **Shifra Reif** (shifra.reif@biu.ac.il), Department of Mathematics, Bar-Ilan University, 5290002 Ramat-Gan, Israel. *The reduced Grothendieck ring of the periplectic Lie superalgebra.* Preliminary report.

The Lie superalgebra $\mathfrak{p}(n)$ is called the periplectic Lie superalgebra, which is a subalgebra of the general linear Lie superalgebra $\mathfrak{gl}(n|n)$. The superalgebra $\mathfrak{gl}(n|n)$ belongs to the basic (classical) series and the periplectic Lie superalgebra $\mathfrak{p}(n)$ belongs to the strange series. Consider the category $\mathcal{F}_n$ of finite-dimensional $\mathfrak{p}(n)$-modules. I will describe translation functors on thin Kac modules and Duflo-Serganova functor, and their application to the study of the reduced Grothendieck ring of $\mathfrak{p}(n)$. This is joint with Shifra Reif. (Received January 09, 2019)