1102-17-247 **Vera Serganova*** (serganov@math.berkeley.edu), Department of Mathematics, UC Berkeley, Berkeley, CA 94720. *Deligne's tensor categories and classical Lie superalgebras.* Preliminary report.

Deligne's categories Rep GL(t) and Rep O(t) are Karoubian tensor categories generated by one object and satisfying natural universality conditions. When t is not an integer Deligne's categories are semisimple. For integral t there exist natural functors from Deligne's categories to the categories of representations of the classical Lie supergroups GL(m,n) and OSP(m,n) with t=m-n.

We use representation theory of classical supergrous to construct new abelian tensor categories and fully faithful tensor functors form Deligne's categories to these abelian categories. We also discuss a new universal tensor category related to the strange Lie superalgebra P(n). (Received July 29, 2014)