1103-16-184 **Virgínia Silva Rodrigues*** (v.rodrigues@ufsc.br), Federal University of Santa Catarina, Department of Mathematics, Campus Trindade, Florianopolis-SC, Brazil, Florianopolis, SC 88.040-900, Brazil, and **Sara Regina da Rosa Pinter**. *On dual objects in braided categories.*

Given a monoidal category $(\mathcal{C}, \otimes, \mathbb{I}, a, l, r)$ dual objects of an object are fundamental to define a rigid category. A monoidal category $\mathcal{C}$ is said to be rigid if any object has a left and a right dual object. In case of any monoidal category if the left dual of an object exists it does not imply the existence of the right one. So, we consider a braided category, which is a monoidal category equipped with a natural isomorfism *braid* between the functors $\otimes$ and $\otimes\tau$, and we show that in this case if an object has right dual it also has left dual and conversely. If time permits we finalize with examples that show the non-reciprocity of the concepts of monoidal, braided and symmetric categories. (Received August 19, 2014)