1053-30-98　　　　**Hendrik De Bie*** (`Hendrik.DeBie@UGent.be`), Department of Mathematical Analysis, Krijgslaan 281, 9000 Ghent, Belgium. *Dunkl operators and realizations of* $\mathfrak{osp}(1|2)$.

In recent work, Ben Said, Kobayashi and Orsted introduced an a-deformation of the $\mathfrak{sl}_2$-relations satisfied by the Dunkl Laplacian. In this talk, we discuss the extensions of their results to Dirac operators. Although we obtain for each value of a a copy of $\mathfrak{osp}(1|2)$, only in the case $a = \pm 2$ the associated Dirac operator factorizes the a-deformed Dunkl Laplacian. Furthermore, we show how these two cases are related via a generalized Kelvin transformation.

　　We also connect our work with operators studied by other authors in the field of Clifford analysis. (Received August 25, 2009)