1003-16-1010 **Sebastian Marius Burciu*** (`smburciu@syr.edu`), Department of Mathematics, Carnegie Hall, Syracuse, NY 13244. *On some representations of the Drinfel'd Double.*

For H a finite dimensional semisimple Hopf algebra over an algebraically closed field of characteristic zero the induced representations from H and H^* to the Drinfel'd double $D(H)$ are studied. The kernel of an H- representation is introduced and similar properties to the group representations hold. In particular every normal Hopf subalgebra of H is the kernel of a representation. The kernel of the adjoint representation of H is the biggest central Hopf subalgebra of H. (Received October 02, 2004)