

NONCOMMUTATIVE HOPF FIBRATIONS

WOJCIECH SZYMAŃSKI

*School of Mathematical and Physical Sciences, University
of Newcastle, Newcastle (Callaghan) NSW 2308, Australia*
E-mail: wojciech@freym.newcastle.edu.au

We describe some noncommutative analogues of the classical Hopf fibration of the 3-sphere. We discuss both topological and geometric aspects, including the structure of the ambient C^* -algebras and the Chern character of the associated line bundles.