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The spectral geometry of the Hopf fibration

The examples of both commutative and noncommutative Hopf fibrations ($S^3 \rightarrow S^2$ and their noncommutative counterparts) are well studied in the algebraic approach. On the other hand, both three- and two-dimensional noncommutative spheres are nicely described as noncommutative manifolds using Connes formalism of spectral triples. In the talk I shall present the link between the two pictures and discuss the relation between the Dirac operators involved.